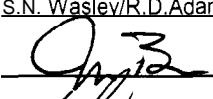



TPC Summary Report

Project Name: **OU 7-10 Staged Interim Action
Stage III Project- Retrieval System Project- Option 2**
 Project Location: **INEEL-RWMC**
 Project Number: **5974-2 Option 2-R**

<u>ESTIMATE ELEMENT</u>	<u>Estimate Subtotal</u>	<u>Escalation</u>	<u>Continaency</u>	<u>TOTAL</u>
Total Estimated Cost (TEC)	\$152,064,402	10.45% \$15,887,145	51.96% \$87,269,705	\$255,221,252
Other Project Cost (OPC)	\$6,661,367	16.08% \$1,071,148	71.30% \$5,513,647	\$13,246,161
<hr/>				
Total Project Cost (TPC)	\$158,725,769	10.68% \$16,958,293	52.81% \$92,783,352	\$268,467,413
Rounded TPC	(Rounded to the nearest \$ 1000000)			\$268,000,000

	Remarks
Type of Estimate: <u>Project Support</u> Estimator: <u>S.N. Waslev/R.D.Adams</u> Checked By: <u></u> Approved By: <u></u>	



Project Summary Report

Project Name: **OU 7-10 Staged Interim Action
Stage III Project - Retrieval System Project - Option 2**
Project Location: **INEEL-RWMC**
Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
Prepared By: **S.N. Wasley/R.D.Adams**
Estimate Type: **Project Support**

<u>Level</u>	<u>Description</u>	<u>Estimate Subtotal</u>	<u>Escalation</u>	<u>Continuency</u>	<u>Continuency%</u>	<u>TOTAL</u>
1.0	ESH&Q	\$12,550,761	\$1,017,867	\$5,808,979	42.81%	\$19,377,607
1.01	--ENVIRONMENTAL	\$6,089,836	\$493,886	\$2,818,612	42.81%	\$9,402,334
1.02	--SAFETY ANALYSIS	\$987,541	\$80,090	\$457,072	42.81%	\$1,524,703
1.03	--SAFETY & HEALTH	\$1,771,765	\$143,690	\$820,041	42.81%	\$2,735,496
1.04	--FIRE PROTECTION	\$145,227	\$11,778	\$67,217	42.81%	\$224,221
1.05	--RADIOLOGICAL CONTROLS	\$532,498	\$43,186	\$246,461	42.81%	\$822,144
1.01	--EMERGENCY PLANNING	\$19,364	\$1,570	\$8,962	42.81%	\$29,896
1.08	--SAFEGUARDS & SECURITY	\$100,000	\$8,110	\$46,284	42.81%	\$154,394
1.09	--QUALITY	\$2,904,532	\$235,558	\$1,344,330	42.81%	\$4,484,420
2.0	DESIGN ENGINEERING	\$19,363,548	\$1,197,829	\$13,641,191	66.34%	\$34,202,568
2.01	--CONCEPTUAL DESIGN	\$3,872,710	\$100,690	\$2,636,103	66.34%	\$6,609,503
2.02	--PRELIMINARY DESIGN	\$5,809,064	\$311,947	\$4,060,909	66.34%	\$10,181,920
2.03	--FINAL DESIGN	\$9,681,774	\$785,192	\$6,944,179	66.34%	\$17,411,145
3.0	PROCUREMENT	\$40,929,933	\$3,319,418	\$24,506,121	55.38%	\$68,755,472
3.1	--PROCUREMENT MANAGEMENT	\$1,568,447	\$127,201	\$939,082	55.38%	\$2,634,730
3.2	--PROCUREMENT* EQUIPMENT	\$33,769,291	\$2,738,689	\$20,218,805	55.38%	\$56,726,786
3.2.01	---RETRIEVAL EQUIPMENT	\$5,893,600	\$411,911	\$3,528,696	55.38%	\$9,900,261
3.2.02	---WASH BAY EQUIPMENT	\$258,322	\$20,950	\$154,666	55.38%	\$433,938
3.2.04	---MSB/GLOVEBOX EQUIPMENT	\$131,800	\$11,116	\$82,505	55.38%	\$231,481
3.2.05	---FABRIC STRUCTURES-PROCUREMENT	\$2,596,046	\$210,539	\$1,554,340	55.38%	\$4,360,925
3.2.06	---LINER PANEL-PROCUREMENT	\$21,526,418	\$1,145,793	\$12,888,581	55.38%	\$36,160,198
3.2.07	---PLANT AIR COMPRESSOR-PROCUREMENT	\$28,620	\$2,321	\$11,136	55.38%	\$48,077
3.2.08	---RADIOLOGICAL/CRITICALITY MONITORING EQUIP.-PROCUREMENT	\$132,240	\$59,385	\$438,421	55.38%	\$1,230,055
3.2.10	---HVAC EQUIPMENT-PROCUREMENT	\$2,301,058	\$186,616	\$1,311,120	55.38%	\$3,865,394

INEEL

Project Summary Report

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D. Adams**
 Estimate Type: **Project Support**

<u>Level</u>	<u>Description</u>	<u>Estimate Subtotal</u>	<u>Escalation</u>	<u>Contingency</u>	<u>Contingency %</u>	<u>TOTAL</u>
3.2.11	---CHILLER EQUIPMENT-PROCUREMENT	\$295,179	\$23,939	\$176,734	55.38%	\$495,852
3.3	--BBWI MATERIAL HANDLING FEE	\$5,592,195	\$453,527	\$3,348,234	55.38%	\$9,393,956
4.0	CONSTRUCTION	\$70,506,563	\$9,419,677	\$39,183,728	49.02%	\$119,109,967
4.1	--CONSTRUCTION MANAGEMENT	\$6,777,242	\$905,440	\$3,766,408	49.02%	\$11,449,089
4.2	--CONSTRUCTION SUBCONTRACTS	\$63,729,321	\$8,514,237	\$35,417,320	49.02%	\$107,660,878
4.2.01	---GENERAL CONDITIONS	\$13,275,616	\$1,773,622	\$7,378,129	49.03%	\$22,427,367
4.2.02	----SITEWORK	\$996,023	\$133,069	\$553,526	49.02%	\$1,682,618
4.2.02.01	----RELOCATE BERM & DRAINAGE	\$289,307	\$38,651	\$160,778	49.02%	\$488,737
4.2.02.01.01	SITEWORK	\$229,289	\$30,633	\$127,424	49.02%	\$387,346
4.2.02.01.01.01	Demo Lift Station Concrete	\$33,201	\$4,436	\$18,451	49.02%	\$56,088
4.2.02.01.01.02	Demo Lift Station Electrical	\$6,922	\$925	\$3,847	49.02%	\$11,693
4.2.02.01.01.03	Demo Fire Pipe in Berm	\$8,300	\$1,109	\$4,613	49.02%	\$14,022
4.2.02.01.01.04	Excavate New Basin	\$19,878	\$2,656	\$11,047	49.02%	\$33,580
4.2.02.01.01.05	-----Relocate North Berm	\$151,773	\$20,277	\$84,346	49.02%	\$256,396
4.2.02.01.01.06	-----Ex & Backfill Discharge Pipe	\$9,214	\$1,231	\$5,121	49.02%	\$15,566
4.2.02.01.02	CONCRETE	\$24,543	\$3,279	\$13,639	49.02%	\$41,461
4.2.02.01.02.01	Concrete Lift Station	\$20,648	\$2,759	\$11,475	49.02%	\$34,881
4.2.02.01.02.02	-----Ductbank Concrete	\$3,895	\$520	\$2,165	49.02%	\$6,580
4.2.02.01.05	-----METALS	\$5,903	\$789	\$3,281	49.02%	\$9,972
4.2.02.01.15	MECHANICAL	\$22,175	\$2,963	\$12,324	49.02%	\$37,462
4.2.02.01.16	ELECTRICAL	\$7,397	\$988	\$4,111	49.02%	\$12,496
4.2.02.01.16.01	Switchgear & Transformers	\$970	\$130	\$539	49.02%	\$1,638
4.2.02.01.16.02	Raceways & Fittings	\$3,015	\$403	\$1,676	49.02%	\$5,094
4.2.02.01.16.03	-----Conductors & Grounding	\$1,818	\$243	\$1,010	49.02%	\$3,071
4.2.02.01.16.04	Testing	\$1,595	\$213	\$886	49.02%	\$2,694
4.2.02.02	---EARTHWORK	\$484,771	\$64,765	\$269,405	49.02%	\$818,942

INEEL

Project Summary Report

Project Name: **OU 7-10 Staged Interim Action
Stage III Project* Retrieval System Project - Option 2**
Project Location: **INEEL-RWMC**
Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
Prepared By: **S.N. Wasley/R.D. Adams**
Estimate Type: **Project Support**

<u>Level</u>	<u>Description</u>	<u>Estimate Subtotal</u>	<u>Escalation</u>	<u>Continaency</u>	<u>Continaency %</u>	<u>TOTAL</u>
4.2.02.02.01	-----RFS EARTHWORK	\$438,301	\$58,557	\$243,580	49.02%	\$740,437
4.2.02.02.02	-----WASH BAY EARTHWORK	\$4,480	\$599	\$2,490	49.02%	\$7,569
4.2.02.02.04	-----MAIN SUPPORT BUILDING EARTHWORK	\$18,118	\$2,421	\$10,069	49.02%	\$30,607
4.2.02.02.07	-----CHARACTERIZATION AIRLOCK EARTHWORK	\$23,872	\$3,189	\$13,267	49.02%	\$40,328
4.2.02.03	-----ROADWAYS & PAVING	\$221,945	\$29,652	\$123,343	49.02%	\$374,939
4.2.03	-----CONCRETE	\$2,138,866	\$285,752	\$1,188,695	49.03%	\$3,613,313
4.2.03.01	-----RFS CONCRETE	\$1,494,709	\$199,693	\$830,699	49.03%	\$2,525,101
4.2.03.02	-----WASH BAY CONCRETE	\$26,077	\$3,484	\$14,493	49.03%	\$44,053
4.2.03.04	-----MAIN SUPPORT BUILDING CONCRETE	\$529,862	\$70,790	\$294,476	49.03%	\$895,127
4.2.03.07	-----CHARACTERIZATION AIRLOCK CONCRETE	\$88,218	\$11,786	\$49,028	49.03%	\$149,032
4.2.05	-----METALS	\$9,878,020	\$1,319,704	\$5,489,524	49.02%	\$16,687,248
4.2.05.01	-----RFS METALS	\$7,078,280	\$945,658	\$3,933,621	49.02%	\$11,957,560
4.2.05.01.01	-----RFS STRUCTURAL STEEL	\$5,962,705	\$796,617	\$3,313,661	49.02%	\$10,072,983
4.2.05.01.02	-----RFS MISC. METALS	\$1,115,575	\$149,041	\$619,960	49.02%	\$1,884,576
4.2.05.02	-----WASH BAY METALS	\$322,626	\$43,103	\$179,293	49.02%	\$545,021
4.2.05.03	-----CLEAN TRANSFER AIRLOCK METALS	\$119,192	\$15,924	\$66,238	49.02%	\$201,354
4.2.05.04	-----MAIN SUPPORT BUILDING METALS	\$448,870	\$59,969	\$249,451	49.02%	\$758,290
4.2.05.05	-----HVAC ROOM METALS	\$1,084,509	\$144,890	\$602,695	49.02%	\$1,832,095
4.2.05.06	-----PERSONNEL AIRLOCK METALS	\$138,785	\$18,542	\$77,127	49.02%	\$234,453
4.2.05.07	-----CHARACTERIZATION AIRLOCK METALS	\$685,760	\$91,618	\$381,098	49.02%	\$1,158,476
4.2.08	-----DOORS & WINDOWS	\$1,011,538	\$135,141	\$562,201	49.03%	\$1,708,881
4.2.08.01	-----RFS DOORS & WINDOWS	\$200,576	\$26,797	\$111,478	49.03%	\$338,850
4.2.08.04	-----MAIN SUPPORT BLDG. DOORS & WINDOWS	\$310,962	\$41,545	\$172,829	49.03%	\$525,336
4.2.08.10	-----SPECIALTY DOORS	\$500,000	\$66,800	\$277,894	49.03%	\$844,694
4.2.09	-----FINISHES	\$784,799	\$104,849	\$436,148	49.02%	\$1,325,796
4.2.09.04	-----MAIN SUPPORT BUILDING FINISHES	\$186,155	\$24,870	\$103,455	49.02%	\$314,481

INEEL

Project Summary Report

Project Name: **OU 7-10 Staged Interim Action
Stage III Project - Retrieval System Project - Option 2**
Project Location: **INEEL-RWMC**
Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
Prepared By: **S.N. Wasley/R.D. Adams**
Estimate Type: **Project Support**

<u>Level</u>	<u>Description</u>	<u>Estimate Subtotal</u>	<u>Escalation</u>	<u>Continaency</u>	<u>Continaency%</u>	<u>TOTAL</u>
4.2.09.10	-----STRIPPABLE COATINGS	\$598,644	\$79,979	\$332,693	49.02%	\$1,011,315
4.2.11	---EQUIPMENT	\$12,815	\$1,712	\$7,122	49.02%	\$21,648
4.2.11.01	-----WASH BAY EQUIPMENT	\$12,815	\$1,712	\$7,122	49.02%	\$21,648
4.2.13	---SPECIAL CONSTRUCTION	\$13,151,223	\$1,757,003	\$7,308,666	49.02%	\$22,216,892
4.2.13.01	-----FACILITY MOCK-UP	\$2,606,000	\$348,162	\$1,448,259	49.02%	\$4,402,421
4.2.13.02	---STRUCTURE ERECTIONS	\$10,545,223	\$1,408,842	\$5,860,406	49.02%	\$17,814,471
4.2.13.02.01	-----ERECT FABRIC STRUCTURES	\$3,742,316	\$499,973	\$2,079,756	49.02%	\$6,322,046
4.2.13.02.02	-----ERECT LINER PANELS	\$6,802,907	\$908,868	\$3,780,650	49.02%	\$11,492,425
4.2.14	---CONVEYING SYSTEMS	\$11,309	\$1,511	\$6,285	49.03%	\$19,105
4.2.14.04	---MAIN SUPPORT BLDG. CONVEYING SYSTEMS	\$11,309	\$1,511	\$6,285	49.03%	\$19,105
4.2.15	---MECHANICAL	\$11,059,020	\$1,477,485	\$6,146,014	49.02%	\$18,682,519
4.2.15.01	---HVAC	\$6,709,354	\$896,370	\$3,728,701	49.02%	\$11,334,425
4.2.15.01.01	-----HVAC - DUCTWORK	\$5,580,778	\$745,592	\$3,101,499	49.02%	\$9,427,869
4.2.15.01.02	-----EXHAUST STACK	\$258,292	\$34,508	\$143,545	49.02%	\$436,345
4.2.15.01.03	-----EMISSIONS NOC MONITORING	\$278,600	\$37,221	\$154,831	49.02%	\$470,652
4.2.15.01.04	-----HVAC - EQUIPMENT	\$179,575	\$23,991	\$99,798	49.02%	\$303,365
4.2.15.01.05	-----CHILLER PIPING & EQUIPMENT	\$412,108	\$55,058	\$229,028	49.02%	\$696,193
4.2.15.02	-----FIRE PROTECTION	\$2,150,986	\$287,372	\$1,195,403	49.02%	\$3,633,760
4.2.15.02.01	-----RPS FIRE SYSTEM CONTROLS	\$558,960	\$74,677	\$310,640	49.02%	\$944,277
4.2.15.02.02	-----RFS DRY PIPE FIRE PROTECTION	\$808,050	\$107,955	\$449,071	49.02%	\$1,365,077
4.2.15.02.04	RFSEXTRAHAZARDOFAMSYSTEM	\$591,500	\$79,024	\$328,724	49.02%	\$999,249
4.2.15.02.05	-----MAIN SUPPORT BUILDING DRY PIPE SYSTEM	\$116,880	\$15,615	\$64,956	49.02%	\$197,451
4.2.15.02.06	-----ADDITIONAL MAIN SUPPORT BUILDING FIRE PROTECTION SYSTEMS	\$44,936	\$6,003	\$24,973	49.02%	\$75,912
4.2.15.02.07	-----AIRLOCK TO CHARACTERIZATION FIRE PROTECTION	\$30,660	\$4,096	\$17,039	49.02%	\$51,795
4.2.15.03	---PLANT AIR	\$322,728	\$43,116	\$179,355	49.02%	\$545,199
4.2.15.04	---BREATHING AIR	\$619,696	\$82,791	\$344,394	49.02%	\$1,046,881

INEEL

Project Summary Report

Project Name: *OU 7-10 Staged Interim Action*
Stage III Project - Retrieval System Project - Option 2
 Project Location: *INEEL-RWMC*
 Estimate Number: *5974-2 Option 2-R*

Client: *S. L. Austad*
 Prepared By: *S.N. Wasley/R.D.Adams*
 Estimate Type: *Project Support*

<u>Level</u>	<u>DescriDtion</u>	<u>Estimate Subtotal</u>	<u>Escalation</u>	<u>Contingency</u>	<u>Continaency%</u>	<u>TOTAL</u>
4.2.15.05	—DUST SUPPRESSION	\$276,726	\$36,971	\$153,790	49.02%	\$467,486
4.2.15.06	—MISC. MECHANICAL	\$979,530	\$130,865	\$544,371	49.02%	\$1,654,767
4.2.16	—ELECTRICAL	\$11,410,093	\$1,524,388	\$6,341,010	49.02%	\$19,275,491
4.2.16.01	—GENERAL FACILITIES ELECTRICAL	\$5,941,992	\$793,850	\$3,302,184	49.02%	\$10,038,027
4.2.16.02	—ELECTRICAL SWITCH GEAR & PANEL BOARDS	\$437,998	\$58,516	\$243,411	49.02%	\$739,925
4.2.16.02.01	—MAIN FEED CONDUITS AND CONDUCTORS	\$75,732	\$10,118	\$42,087	49.02%	\$127,936
4.2.16.02.02	—TRANSFORMERS	\$79,734	\$10,652	\$44,311	49.02%	\$134,698
4.2.16.02.03	SITWORK	\$29,621	\$3,957	\$16,461	49.02%	\$50,040
4.2.16.02.04	—SWITCHGEAR	\$233,022	\$31,132	\$129,499	49.02%	\$393,652
4.2.16.02.05	—MISC. CONNECTIONS	\$7,132	\$953	\$3,963	49.02%	\$12,048
4.2.16.02.06	—TESTING	\$12,757	\$1,704	\$7,090	49.02%	\$21,551
4.2.16.03	—MONITORING AND CONTROLS	\$1,400,070	\$187,049	\$778,071	49.02%	\$2,365,190
4.2.16.04	—CRITICALITY & RAD MONITORING SYSTEMS INSTALLATION	\$76,904	\$10,274	\$42,738	49.02%	\$129,917
4.2.16.05	—CCTV MONITORING SYSTEM	\$215,152	\$28,744	\$119,568	49.02%	\$363,464
4.2.16.06	—INTEGRATION CONTROLS SYSTEM	\$3,337,977	\$445,954	\$1,855,037	49.02%	\$5,638,968
6.0	TESTING & TURNOVER	\$6,661,367	\$1,071,148	\$5,513,647	71.30%	\$13,246,161
OPC3100	--TESTING AND TURNOVER PLANNING	\$193,635	\$31,137	\$160,273	71.30%	\$385,045
OPC3200	--S. O. TESTING	\$2,904,532	\$467,049	\$2,404,096	71.30%	\$5,775,677
OPC3300	--ORR SUPPORT	\$212,999	\$34,250	\$176,300	71.30%	\$423,550
OPC3400	--FACILITY ACCEPTANCE REVIEW	\$145,227	\$23,352	\$120,205	71.30%	\$288,784
OPC3500	--RADIOLOGICAL CONTROL SUPPORT	\$106,500	\$17,125	\$88,150	71.30%	\$211,775
OPC3600	--OPERATOR TRAINING	\$1,936,355	\$311,366	\$1,602,731	71.30%	\$3,850,451
OPC3700	--OPERATING PROCEDURES	\$425,998	\$68,500	\$352,601	71.30%	\$847,099
OPC3800	--START-UP COORDINATION	\$125,863	\$20,239	\$104,177	71.30%	\$250,279
OPC3900	—SPARES	\$610,258	\$98,129	\$505,113	71.30%	\$1,213,501

INEEL

Project Summary Report

Project Name: *OU 7-10 Staged Interim Action*
Stage III Project - Retrieval System Project - Option 2
 Project Location: *INEEL-RWMC*
 Estimate Number: *5974-2 Option 2-R*

Client: *S. L. Austad*
 Prepared By: *S.N. Wasley/R.D. Adams*
 Estimate Type: *Project Support*

<u>Level</u>	<u>DescriDtion</u>	<u>Estimate Subtotal</u>	<u>Escalation</u>	<u>Continaency</u>	<u>Continaency %</u>	<u>TOTAL</u>
7.0	PROJECT MANAGEMENT	\$8,713,597	\$932,355	\$4,129,686	42.81%	\$13,775,637

Total	OU 7-10 STAGE III - RETRIEVAL SYSTEM PROJECT - OPTION # 2	\$158,725,769	\$16,958,293	\$92,783,352	52.81%	\$268,467,413
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INEEL

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project- Retrieval System Project- Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
1.01 ENVIRONMENTAL												
Memo: Percentage of construction and procurement costs based on detailed input from the project team for the LCB effort, OU 7-10 PIT-9 STAGE III - LCB , estimate# 5974-1. Detailed input was back-calculated to arrive at a representative percentage of total construction and procurement costs. That percentage was applied to this estimated construction and procurement costs.												
	ENVIRONMENTAL		U.C. per \$				0	0	0	0	0.063	0.063
			96,817,741.00	\$	0		\$0	\$0	\$0	\$0	\$6,089,836	\$6,089,836
<hr/>												
	Subtotal						\$0	\$0	\$0	\$0	\$6,089,836	\$6,089,836
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEL/Subcontractor Overheads		0.00%				\$0	\$0	\$0	\$0	\$0	\$0
<hr/>												
	Subtotal Estimate											\$6,089,836
	Escalation						\$0	\$0	\$0	\$0	\$493,886	\$493,886
	Contingency						\$0	\$0	\$0	\$0	\$2,818,612	\$2,818,612
<hr/>												
--Total 1.01 ENVIRONMENTAL					0		\$0	\$0	\$0	\$0	\$9,402,334	\$9,402,334

1.02 SAFETY ANALYSIS

Memo: Percentage of construction and procurement costs based on detailed input from the project team for the **LCB** effort, **OU 7-10 PIT-9 STAGE III - LCB**, estimate# 5974-1. Detailed input was back-calculated to arrive at a representative percentage of total construction and procurement costs. That percentage was applied to this estimated construction and procurement costs.

	SAFETY ANALYSIS		U.C. per \$				0	0	0	0	0.01	0.01
			96,817,741.00	\$	0		\$0	\$0	\$0	\$0	\$987,541	\$987,541
<hr/>												
	Subtotal						\$0	\$0	\$0	\$0	\$987,541	\$987,541
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEL/Subcontractor Overheads		0.00%				\$0	\$0	\$0	\$0	\$0	\$0
<hr/>												
	Subtotal Estimate											\$987,541
	Escalation						\$0	\$0	\$0	\$0	\$80,090	\$80,090
	Contingency						\$0	\$0	\$0	\$0	\$457,072	\$457,072
<hr/>												
---Total 1.02 SAFETY ANALYSIS					0		\$0	\$0	\$0	\$0	\$1,524,703	\$1,524,703

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
 Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D. Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
1.03 SAFETY & HEALTH												
Memo: Percentage of construction and procurement costs based on detailed input from the project team for the LCB effort, OU 7-10 PIT-9 STAGE III - LCB, estimate# 5974-1. Detailed input was back-calculated to arrive at a representative percentage of total construction and procurement costs. That percentage was applied to this estimated construction and procurement costs.												
		U.C. per \$										
	SAFETY & HEALTH	96,817,741.00	\$		0		\$0	\$0	\$0	\$0	\$1,771,765	\$1,771,765
Subtotal							\$0	\$0	\$0	\$0	\$1,771,765	\$1,771,765
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEL/Subcontractor Overheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$1,771,765
Escalation							\$0	\$0	\$0	\$0	\$143,690	\$143,690
Contingency							\$0	\$0	\$0	\$0	\$820,041	\$820,041
--Total 1.03 SAFETY & HEALTH					0		\$0	\$0	\$0	\$0	\$2,735,496	\$2,735,496

1.04 FIRE PROTECTION

Memo: Percentage of construction and procurement costs based on detailed input from the project team for the LCB effort, OU 7-10 PIT-9 STAGE III - LCB, estimate# 5974-1. Detailed input was back-calculated to arrive at a representative percentage of total construction and procurement costs. That percentage was applied to this estimated construction and procurement costs.

		U.C. per \$										
	FIRE PROTECTION	96,817,741.00	\$		0		\$0	\$0	\$0	\$0	\$145,227	\$145,227
Subtotal							\$0	\$0	\$0	\$0	\$145,227	\$145,227
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEL/Subcontractor Overheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$145,227
Escalation							\$0	\$0	\$0	\$0	\$11,770	\$11,778
Contingency							\$0	\$0	\$0	\$0	\$67,217	\$67,217
--Total 1.04 FIRE PROTECTION					0		\$0	\$0	\$0	\$0	\$224,221	\$224,221

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOT L</u>
1.05 RADIOLOGICAL CONTROLS												
Memo: Percentage of construction and procurement costs based on detailed input from the project team for the LCB effort, OU 7-10 PIT-9 STAGE III - LCB, estimate # 5974-1. Detailed input was back-calculated to arrive at a representative percentage of total construction and procurement costs. That percentage was applied to this estimated construction and procurement costs.												
	RADIOLOGICAL CONTROLS	U.C. per \$	96,817,741.00	\$	0		\$0	\$0	\$0	\$0	0.006	\$532,498
											\$532,498	
Subtotal							\$0	\$0	\$0	\$0	\$532,498	\$532,498
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads		0.00%					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate							\$0	\$0	\$0	\$0	\$43,186	\$43,186
Escalation							\$0	\$0	\$0	\$0	\$246,461	\$246,461
Contingency							\$0	\$0	\$0	\$0	\$0	\$0
---Total 1.05 RADIOLOGICAL CONTROLS					0		\$0	\$0	\$0	\$0	\$822,144	\$822,144

1.07 EMERGENCY PLANNING

Memo: Percentage of construction and procurement costs based on detailed input from the project team for the LCB effort, OU 7-10 PIT-9 STAGE III - LCB, estimate # 5974-1. Detailed input was back-calculated to arrive at a representative percentage of total construction and procurement costs. That percentage was applied to this estimated construction and procurement costs.

	EMERGENCY PLANNING	U.C. per \$	96,817,741.00	\$	0		\$0	\$0	\$0	\$0	\$0	\$19,364
							\$0	\$0	\$0	\$0	\$19,364	\$19,364
Subtotal							\$0	\$0	\$0	\$0	\$19,364	\$19,364
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads		0.00%					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate							\$0	\$0	\$0	\$0	\$1,570	\$1,570
Escalation							\$0	\$0	\$0	\$0	\$8,962	\$8,962
Contingency							\$0	\$0	\$0	\$0	\$0	\$0
---Total 1.07 EMERGENCY PLANNING					0		\$0	\$0	\$0	\$0	\$29,896	\$29,896

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D. Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
1.08 SAFEGUARDS & SECURITY												
Memo: Percentage of construction and procurement costs based on detailed input from the project team for the LCB effort, OU 7-10 PIT-9 STAGE III - LCB, estimate # 5974-1. Detailed input was back-calculated to arrive at a representative percentage of total construction and procurement costs. That percentage was applied to this estimated construction and procurement costs.												
		U.C. per LS					0	0	0	0	100000	100000
	SAFEGUARDS & SECURITY		1.00	LS	0		\$0	\$0	\$0	\$0	\$100,000	\$100,000
Memo: Per Dave Wilkins.												
Subtotal							\$0	\$0	\$0	\$0	\$100,000	\$100,000
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractor Overheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$100,000
Escalation							\$0	\$0	\$0	\$0	\$8,110	\$8,110
Contingency							\$0	\$0	\$0	\$0	\$46,284	\$46,284
---Total 1.08 SAFEGUARDS & SECURITY					0		\$0	\$0	\$0	\$0	\$154,394	\$154,394

1.09 QUALITY

Memo: Percentage of construction and procurement costs based on detailed input from the project team for the LCB effort, OU 7-10 PIT-9 STAGE III - LCB, estimate # 5974-1. Also considered were percentage allowances derived by the project team on the CSIX/TRUE Grout Feasibility Study, produced by Washington Group International, December, 2000. Where large discrepancies occurred, an average of the two percentages was applied here.

		U.C. per \$					0	0	0	0	0.03	0.03
	QUALITY		96,817,741	\$	0		\$0	\$0	\$0	\$0	\$2,904,532	\$2,904,532
Subtotal							\$0	\$0	\$0	\$0	\$2,904,532	\$2,904,532
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractor Overheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$2,904,532
Escalation							\$0	\$0	\$0	\$0	\$235,558	\$235,558
Contingency							\$0	\$0	\$0	\$0	\$1,344,330	\$1,344,330
---Total 1.09 QUALITY					0		\$0	\$0	\$0	\$0	\$4,484,420	\$4,484,420

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D. Adams**
 Estimate Type: **Project Support**

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
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2.01 CONCEPTUAL DESIGN

Memo: Percentage of construction and procurement costs based on detailed input from the project team for the LCB effort, OU 7-10PIT-9 STAGE III LCB, estimate# 5974-1. Also considered were percentage allowances derived by the project team on the CSIX/TRUE Grout Feasibility Study, produced by Washington Group International, December, 2000. Where large discrepancies occurred, an average of the two percentages was applied here.

		U.C. per \$				0	0	0	0.04	0	0.04	
CONCEPTUAL DESIGN EFFORT		96,817,74100	\$		0	\$0	\$0	\$0	\$3,872,710	\$0	\$3,872,710	
Subtotal						\$0	\$0	\$0	\$3,872,710	\$0	\$3,872,710	
Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0	
INEEL/Subcontractor Overheads						\$0	\$0	\$0	\$0	\$0	\$0	
Subtotal Estimate												\$3,872,710
Escalation						\$0	\$0	\$0	\$100,690	\$0	\$100,690	
Contingency						\$0	\$0	\$0	\$2,636,103	\$0	\$2,636,103	
---Total 2.01 CONCEPTUAL DESIGN					0	\$0	\$0	\$0	\$6,609,503	\$0	\$6,609,503	

2.02 PRELIMINARY DESIGN

Memo: Percentage of construction and procurement costs based on detailed input from the project team for the LCB effort, OU 7-10PIT-9 STAGE III LCB, estimate# 5974-1. Also considered were percentage allowances derived by the project team on the CSIX/TRUE Grout Feasibility Study, produced by Washington Group International, December, 2000. Where large discrepancies occurred, an average of the two percentages was applied here.

		U.C. per \$				0	0	0	0.06	0	0.06	
PRELIMINARY DESIGN		96,817,74100	\$		0	\$0	\$0	\$0	\$5,809,064	\$0	\$5,809,064	
Subtotal						\$0	\$0	\$0	\$5,809,064	\$0	\$5,809,064	
Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0	
INEEL/Subcontractor Overheads						\$0	\$0	\$0	\$0	\$0	\$0	
Subtotal Estimate												\$5,809,064
Escalation						\$0	\$0	\$0	\$311,947	\$0	\$311,947	
Contingency						\$0	\$0	\$0	\$4,060,909	\$0	\$4,060,909	
---Total 2.02 PRELIMINARY DESIGN					0	\$0	\$0	\$0	\$10,181,920	\$0	\$10,181,920	

DETAIL ITEM REPORT

Project Name: *OU 7-10 Staged Interim Action
Stage III Project- Retrieval System Project- Option 2*
Project Location: *INEEL-RWMC*
Estimate Number: *5974-2 Option 2-R*

Client: *S. L. Austad*
Prepared By: *S.N. Wasley/R.D. Adams*
Estimate Type: *Project Support*

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>EquipDment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
2.03 FINAL DESIGN												
Memo: <i>Percentage of construction and procurement costs based on detailed input from the project team for the LCB effort, OU 7-10 PIT-9 STAGE III - LCB, estimate # 5974-1. Also considered were percentage allowances derived by the project team on the CSIX/TRU Grout Feasibility Study, produced by Washington Group International. December, 2000. Where large discrepancies occurred, an average of the two percentages was applied here.</i>												
	FINAL DESIGN	<i>U.C. per \$</i>	96,817,741.00	\$	0		0	0	0	0	0.1	0.1
							\$0	\$0	\$0	\$0	\$9,681,774	\$9,681,774
	Subtotal						\$0	\$0	\$0	\$0	\$9,681,774	\$9,681,774
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEL/Subcontractor Overheads	0.00%					\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate											\$9,681,774
	Escalation						\$0	\$0	\$0	\$0	\$785,192	\$785,192
	Contingency						\$0	\$0	\$0	\$0	\$6,944,179	\$6,944,179
—Total 2.03 FINAL DESIGN					0		\$0	\$0	\$0	\$0	\$17,411,145	\$17,411,145
3.1 PROCUREMENT MANAGEMENT												
	PROCUREMENT SUPPORT	<i>U.C. per \$</i>	96,817,741.00	\$	0		0	0	0	0	0.016	0.016
							\$0	\$0	\$0	\$0	\$1,568,447	\$1,568,447
	Subtotal						\$0	\$0	\$0	\$0	\$1,568,447	\$1,568,447
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEL/Subcontractor Overheads	0.00%					\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate											\$1,568,447
	Escalation						\$0	\$0	\$0	\$0	\$127,201	\$127,201
	Contingency						\$0	\$0	\$0	\$0	\$939,082	\$939,082
—Total 3.1 PROCUREMENT MANAGEMENT					0		\$0	\$0	\$0	\$0	\$2,634,730	\$2,634,730

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
3.2.01 RETRIEVAL EQUIPMENT												
<i>Memo: Equipment costs were provided by the BBWI Engineering group, estimate file contains these sheets with notes and basis of costs.</i>												
BH-1,2		<i>U.C. per EA</i>					0	0	535000	0	0	535000
	BACKHOE		2.00	EA	0		\$0	\$0	\$1,070,000	\$0	\$0	51,070,000
Memo:												
FEL-1,2		<i>U.C. per EA</i>					0	0	710000	0	0	710000
	LOADER/FORKLIFT		2.00	EA	0		\$0	\$0	\$1,420,000	\$0	\$0	\$1,420,000
ML-1,2		<i>U.C. per EA</i>					0	0	150000	0	0	150000
	MAN-LIFT		2.00	EA	0		\$0	\$0	\$300,000	\$0	\$0	\$300,000
UM-1,2		<i>U.C. per EA</i>					0	0	500000	0	0	500000
	UTILITY MODULE		2.00	EA	0		\$0	\$0	\$1,000,000	\$0	\$0	\$1,000,000
DM-1,2		<i>U.C. per EA</i>					0	0	300000	0	0	300000
	DECON MODULE		2.00	EA	0		\$0	\$0	\$600,000	\$0	\$0	\$600,000
GM-1,2		<i>U.C. per EA</i>					0	0	150000	0	0	150000
	GROUTING MODULE		2.00	EA	0		\$0	\$0	\$300,000	\$0	\$0	\$300,000
DC-1,2		<i>U.C. per EA</i>					0	0	75000	0	0	75000
	DIRT CHUTE		2.00	EA	0		\$0	\$0	\$150,000	\$0	\$0	\$150,000
CAM-1.32		<i>U.C. per LS</i>					0	0	700000	0	0	700000
	CAMERA SYSTEM		1.00	LS	0		\$0	\$0	\$700,000	\$0	\$0	\$700,000

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D. Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
3.2.01 RETRIEVAL EQUIPMENT												
<i>Memo: Equipment costs were provided by the BBWI Engineering group, estimate file contains these sheets with notes and basis of costs.</i>												
	SHIPPING FOR ABOVE EQUIPMENT	U.C. per LS	1.00	LS	0		\$0	\$0	20000 \$20,000	0 \$0	0 \$0	20000 \$20,000
Subtotal							\$0	\$0	\$5,560,000	\$0	\$0	\$5,560,000
Sales Tax							\$0	\$0	\$333,600	\$0	\$0	\$333,600
INEEUSubcontractorOverheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$5,893,600
Escalation							\$0	\$0	\$477,971	\$0	\$0	\$477,971
Contingency							\$0	\$0	\$3,528,696	\$0	\$0	\$3,528,696
— Total 3.2.01 RETRIEVAL EQUIPMENT					0		\$0	\$0	\$9,900,267	\$0	\$0	\$9,900,267

3.2.02 WASH BAY EQUIPMENT

111791501410	U.C. per Ea.				0	0	16300	0	0	16300
Waste handling,for hazardouswaste, 55 gal drum packer W/HEPA filter	1.00	Ea.	0		\$0	\$0	\$16,300	\$0	\$0	\$16,300
Memo: For load out of Wash Bay filter solids.										
	U.C. per EA				0	0	3700	0	0	3700
WASH BAY FILTER FEED PUMP	2.00	EA	0		\$0	\$0	\$7,400	\$0	\$0	\$7,400
Memo: Taken from estimate #2646 SBW Treatment • NGLW CslX Study. Actual equipment requirements are undefinedat this point in the design development. Used the informationfrom estimate #2646 as an allowance.										
	U.C. per EA				0	0	60000	0	0	60000
WASH BAY FILTER	2.00	EA	0		\$0	\$0	\$120,000	\$0	\$0	\$120,000
Memo: Taken from estimate #2646 SBW Treatment • NGLW CslX Study. Actual equipment requirements are undefinedat this point in the design development. Used the informationfrom estimate #2646 as an allowance.										

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D. Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
3.2.02 WASH BAY EQUIPMENT												
	SPRAY DECON SYSTEM - ALLOWANCE	<i>U.C. per LS</i>	1.00	LS	0		0 \$0	0 \$0	100000 \$100,000	0 \$0	0 \$0	100000 \$100,000
Subtotal							\$0	\$0	\$243,700	\$0	\$0	\$243,700
Sales Tax							\$0	\$0	\$14,622	\$0	\$0	\$14,622
INEEL/Subcontractor Overheads							\$0	\$0	\$0	\$0	\$0	\$0
0.00%												
Subtotal Estimate												\$258,322
Escalation							\$0	\$0	\$20,950	\$0	\$0	\$20,950
Contingency							\$0	\$0	\$154,666	\$0	\$0	\$154,666
— Total 3.2.02 WASH BAY EQUIPMENT					0		\$0	\$0	\$433,938	\$0	\$0	\$433,938

3.2.04 MSB/GLOVEBOX EQUIPMENT

	MAINT. BAY GLOVEBOX CRANE 2T REMOTE	<i>U.C. per EA</i>	1.00	EA	0		0 \$0	0 \$0	130000 \$130,000	0 \$0	0 \$0	130000 \$130,000
Memo: Based on a vendor preliminary quote on a similar in-cell crane for another application. Received from American Crane, David Weber, on 4/25/03. Added \$5,000 to price for 2-ton model.												
Subtotal							\$0	\$0	\$130,000	\$0	\$0	\$130,000
Sales Tax							\$0	\$0	\$7,800	\$0	\$0	\$7,800
INEEL Subcontractor Overheads							\$0	\$0	\$0	\$0	\$0	\$0
0.00%												
Subtotal Estimate												\$137,800
Escalation							\$0	\$0	\$11,176	\$0	\$0	\$11,176
Contingency							\$0	\$0	\$82,505	\$0	\$0	\$82,505
— Total 3.2.04 MSB/GLOVEBOX EQUIPMENT					0		\$0	\$0	\$231,481	\$0	\$0	\$231,481

3.2.05 FABRIC STRUCTURES-PROCUREMENT

Memo: Costs are based on information obtained from a fabric building fabricator, that also supplied the fabric building on the GEM project. This company understand the requirements at the INEEL.

	RETRIEVAL FACILITY STRUCTURE (RFS) FABRIC COVERING ONLY	<i>U.C. per SF</i>	127,300.00	SF	0		0 \$0	0 \$0	11 \$1,400,300	0 \$0	0 \$0	11 \$1,400,300
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DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action
Stage III Project - Retrieval System Project - Option 2**
Project Location: **INEEL-RWMC**
Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
Prepared By: **S.N. Wasley/R.D.Adams**
Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
3.2.05 FABRIC STRUCTURES-PROCUREMENT												
<i>Memo: Costs are based on information obtained from a fabric building fabricator, that also supplied the fabric building on the GEM project. This company understand the requirements at the INEEL.</i>												
	RFS SPECIALTY PERSONNEL BALANCING DOOR	<i>U.C. per EA</i>	12.00	EA	0		0	0	8000	0	0	8000
							\$0	\$0	\$96,000	\$0	\$0	\$96,000
	MAIN SUPPORT BUILDING- FRAME, FABRIC, & DOORS	<i>U.C. per SF</i>	31,200.00	SF	0		0	0	26.5	0	0	26.5
							\$0	\$0	\$826,800	\$0	\$0	\$826,800
	AIRLOCK CHARACTERIZATION STRUCTURE- FRAME, FABRIC	<i>U.C. per SF</i>	4,200.00	SF	0		0	0	30	0	0	30
							\$0	\$0	\$126,000	\$0	50	\$126,000
Subtotal							\$0	\$0	\$2,449,100	\$0	\$0	\$2,449,100
Sales Tax							\$0	\$0	\$146,946	\$0	\$0	\$146,946
INEEL/Subcontractor Overheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$2,596,046
Escalation							\$0	\$0	\$210,539	\$0	50	\$210,539
Contingency							\$0	\$0	\$1,554,340	\$0	\$0	\$1,554,340
— Total 3.2.05 FABRIC STRUCTURES-PROCUREMENT					0		\$0	\$0	\$4,360,925	\$0	\$0	\$4,360,925

3.2.06 LINER PANEL-PROCUREMENT

Memo: Costs are based on a surface per square foot from the GEM facility. This structure is a special engineered and design structure. The structure is fabricated from stainless steel sheets and carbon steel frames. These panels are to be bolted together to form a radiological containment area. This is the same concept as the GEM project, with the exception that the panels will be supported by the WES structure. This cost per surface SF includes windows for viewing and lighting.

RFS	<i>U.C. per SSF</i>	120,000.00	SSF	0		0	0	116.24	0	0	116.24
						\$0	\$0	\$13,948,800	\$0	\$0	\$13,948,800
WASH BAY STRUCTURE	<i>U.C. per SSF</i>	4,066.00	SSF	0		0	0	116.24	0	0	116.24
						\$0	\$0	\$472,632	\$0	\$0	\$472,632
CLEAN AIRLOCK TRANSFER STRUCTURE	<i>U.C. per SSF</i>	3,611.00	SSF	0		0	0	116.24	0	0	116.24
						\$0	\$0	\$419,743	\$0	\$0	\$419,743
HVAC ROOM STRUCTURE (@ 50% OF HVAC ROOM)	<i>U.C. per SSF</i>	22,509.00	SSF	0		0	0	116.24	0	0	116.24
						\$0	\$0	\$2,616,446	\$0	\$0	\$2,616,446

DETAIL ITEM REPORT

Project Name: *OU 7-70 Staged Interim Action*
Stage III Project - Retrieval System Project - Option 2
 Project Location: *INEEL-RWMC*
 Estimate Number: *5974-2 Option 2-R*

Client: *S. L. Austad*
 Prepared By: *S.N. Wasley/R.D.Adams*
 Estimate Type: *Project Support*

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
3.2.06 LINER PANEL-PROCUREMENT												
<i>Memo: Costs are based on a surface per square foot from the GEM facility. This structure is a special engineered and design structure. The structure is fabricated from stainless steel sheets and carbon steel frames. These panels are to be bolted together to form a radiological containment area. This is the same concept as the GEM project, with the exception that the panels will be supported by the WES structure. This cost per surface SF includes windows for viewing and lighting.</i>												
		<i>U.C. per SSF</i>										
PERSONNEL AIRLOCK STRUCTURE			4,066.00	SSF	0		\$0	\$0	116.24 \$472,632	0 \$0	0 \$0	116.24 \$472,632
MAINTENANCE BAY GLOVE BOX STRUCTURE		<i>U.C. per SSF</i>	5,215.00	SSF	0		\$0	\$0	116.24 \$606,192	0 \$0	0 \$0	116.24 \$606,192
AIRLOCK TO CHARACTERIZATION STRUCTURE		<i>U.C. per SSF</i>	15,240.00	SSF	0		\$0	\$0	116.24 \$1,771,498	0 \$0	0 \$0	116.24 \$1,771,498
Subtotal							\$0	\$0	\$20,307,942	\$0	\$0	\$20,307,942
Sales Tax							\$0	\$0	\$1,218,477	\$0	\$0	\$1,218,477
INEE Subcontractor Overheads		0.00%					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$21,526,418
Escalation							\$0	\$0	\$1,745,793	\$0	\$0	\$1,745,793
Contingency							\$0	\$0	\$12,088,587	\$0	\$0	\$12,888,587
--Total 3.2.06 LINER PANEL-PROCUREMENT					0		\$0	\$0	\$36,160,798	\$0	\$0	\$36,160,798

3.2.07 PLANT AIR COMPRESSOR-PROCUREMENT

		<i>U.C. per EA</i>										
PLANT ROTARY SCREW AIR COMPRESSOR 50 HP			1.00	EA	0		\$0	\$0	25000 \$25,000	0 \$0	0 \$0	25000 \$25,000
<i>Memo: Costs are based on Richardson estimating manual for a 50 hp rotary screw type compressor including a 200 gallon tank, enclosed cabinet. For additional information see file cut sheet.</i>												
FILTRATION SYSTEM FOR ABOVE COMPRESSOR		<i>U.C. per EA</i>	1.00	EA	0		\$0	\$0	2000 \$2,000	0 \$0	0 \$0	2000 \$2,000

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project- Retrieval System Project- Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
3.2.07 PLANT AIR COMPRESSOR-PROCUREMENT												
	B. AIR COMPRESSOR TO BE PROVIDED BY BBWI EQUIPMENT POOL, NO COST TO PROJECT		1.00		0			\$0	\$0	0.01 \$0	0 \$0	0 \$0
												0.01 \$0
<hr/>												
	Subtotal							\$0	\$0	\$27,000	\$0	\$0
	Sales Tax							\$0	\$0	\$1,620	\$0	\$0
	INEEUSubcontractorOverheads							\$0	\$0	\$0	\$0	\$0
												0.00%
<hr/>												
	Subtotal Estimate											\$28,620
	Escalation							\$0	\$0	\$2,321	\$0	\$0
	Contingency							\$0	\$0	\$17,136	\$0	\$0
<hr/>												
---Total 3.2.07 PLANT AIR COMPRESSOR-PROCUREMENT					0			\$0	\$0	\$48,077	\$0	\$0
<hr/>												
3.2.08 RADIOLOGICAL/CRITICALITY MONITORING EQUIP.-PROCUREMENT												
	CRITICALITY MONITORING SYSTEM		3.00	EA	0			\$0	\$0	82200 \$246,600	0 \$0	0 \$0
												82200 \$246,600
Memo: Costs are based on the GEM project, the gem project included one complete system. Based on assumption this project will require three complete systems. The complete system includes alarm system, panel boards, circuits, warning lights, and audible alarms.												
	RAD MONITORING EQUIPMENT, BASED ON THE EXACT EQUIPEMNT FROM GEM PROJECT		1.00	LS	0			\$0	\$0	444200 \$444,200	0 \$0	0 \$0
												444200 \$444,200
Memo: This cost is based on the GEM project. Assume the same type of equipment and quantities will be required. The cost for the GEM project included updates to existing PMC's. New equipment included cams, air pumps, hand monitors, rad monitors, friskers, detectors, air samplers, etc.												
<hr/>												
	Subtotal							\$0	\$0	\$690,800	\$0	\$0
	Sales Tax							\$0	\$0	\$41,448	\$0	\$0
	INEEUSubcontractorOverheads							\$0	\$0	\$0	\$0	\$0
												0.00%
<hr/>												
	Subtotal Estimate											\$732,248
	Escalation							\$0	\$0	\$59,385	\$0	\$0
	Continaency							\$0	\$0	\$438,421	\$0	\$0
<hr/>												
---Total 3.2.08 RADIOLOGICAL/CRITICALITY MONITORING EQUIP.-PROCUREMENT					0			\$0	\$0	\$1,230,055	\$0	\$0

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs.</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>3.2.10 HVAC EQUIPMENT-PROCUREMENT</u>												
	MIST ELIMINATOR	<i>U.C. per EA</i>	1.00	EA	0		0 \$0	0 \$0	48660 \$48,660	0 \$0	0 \$0	48660 \$48,660
	DUST COLLECTOR (55,000 CFM)	<i>U.C. per EA</i>	3.00	EA	0		0 \$0	0 \$0	68000 \$204,000	0 \$0	0 \$0	68000 \$204,000
	BLOWER 300 HP (110,000CFM)	<i>U.C. per EA</i>	2.00	EA	0		0 \$0	0 \$0	137000 \$274,000	0 \$0	0 \$0	137000 \$274,000
	BLOWER 150 HP (37,000CFM)	<i>U.C. per EA</i>	2.00	EA	0		0 \$0	0 \$0	26633 \$53,266	0 \$0	0 \$0	26633 \$53,266
	VFD FOR 150 HP FAN MOTORS	<i>U.C. per EA</i>	2.00	EA	0		0 \$0	0 \$0	22400 \$44,800	0 \$0	0 \$0	22400 \$44,800
	VFD FOR 300 HP FAN MOTORS	<i>U.C. per EA</i>	2.00	EA	0		0 \$0	0 \$0	33300 \$66,600	0 \$0	0 \$0	33300 \$66,600
	RFS PENTHOUSE (37,000 CFM)	<i>U.C. per EA</i>	1.00	EA	0		0 \$0	0 \$0	10000 \$10,000	0 \$0	0 \$0	10000 \$10,000
	HEPA HOUSINGS 3H X 5W	<i>U.C. per EA</i>	2.00	EA	0		0 \$0	0 \$0	135000 \$270,000	0 \$0	0 \$0	135000 \$270,000
	HEPA HOUSINGS 4H X 6W	<i>U.C. per EA</i>	2.00	EA	0		0 \$0	0 \$0	360000 \$720,000	0 \$0	0 \$0	360000 \$720,000
	HEPA HOUSINGS 3H X 6W	<i>U.C. per EA</i>	1.00	EA	0		0 \$0	0 \$0	162000 \$162,000	0 \$0	0 \$0	162000 \$162,000
	HEPA HOUSINGS DON/DOFT AREAS	<i>U.C. per EA</i>	4.00	EA	0		0 \$0	0 \$0	8000 \$32,000	0 \$0	0 \$0	8000 \$32,000
	PLC CONTROL UNITS	<i>U.C. per EA</i>	2.00	EA	0		0 \$0	0 \$0	2500 \$5,000	0 \$0	0 \$0	2500 \$5,000
	AIR COMPRESSOR (25HP)	<i>U.C. per EA</i>	1.00	EA	0		0 \$0	0 \$0	17500 \$17,500	0 \$0	0 \$0	17500 \$17,500

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>3.2.1.0 HVAC EQUIPMENT-PROCUREMENT</u>												
	DESSICANT DRYER/FILTER	<i>U.C. per EA</i>	1.00	EA	0		0 \$0	0 \$0	12983 \$12,983	0 \$0	0 \$0	12983 \$12,983
	72" DIA. DAMPERS (LEAK PROOF- SPECIALTY SST)	<i>U.C. per EA</i>	10.00	EA	0		0 \$0	0 \$0	25000 \$250,000	0 \$0	0 \$0	25000 \$250,000
Subtotal							\$0	\$0	\$2,170,809	\$0	\$0	\$2,170,809
Sales Tax							\$0	\$0	\$130,249	\$0	\$0	\$130,249
INEEL/Subcontractor Overheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$2,301,058
Escalation							\$0	\$0	\$186,616	\$0	\$0	\$186,616
Contingency							\$0	\$0	\$1,377,720	\$0	\$0	\$1,377,720
—Total 3.2.10 HVAC EQUIPMENT-PROCUREMENT					0		\$0	\$0	\$3,865,394	\$0	\$0	\$3,865,394

3.2.11 CHILLER EQUIPMENT-PROCUREMENT

150 TON PACKAGED CHILLER	<i>U.C. per EA</i>	1.00	EA	0		0 \$0	0 \$0	150000 \$150,000	0 \$0	0 \$0	150000 \$150,000
250 GALLON WATER TANK	<i>U.C. per EA</i>	1.00	EA	0		0 \$0	0 \$0	5000 \$5,000	0 \$0	0 \$0	5000 \$5,000
BOILER/WATER HEATER 3000 MBH	<i>U.C. per EA</i>	1.00	EA	0		0 \$0	0 \$0	34000 \$34,000	0 \$0	0 \$0	34000 \$34,000
5 HP PUMP	<i>U.C. per EA</i>	3.00	EA	0		0 \$0	0 \$0	4550 \$13,650	0 \$0	0 \$0	4550 \$13,650
25 HP PUMP	<i>U.C. per EA</i>	1.00	EA	0		0 \$0	0 \$0	6511 \$6,511	0 \$0	0 \$0	6511 \$6,511
VFD FOR 5 HP PUMP	<i>U.C. per EA</i>	1.00	EA	0		0 \$0	0 \$0	2810 \$2,810	0 \$0	0 \$0	2810 \$2,810

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTA</u>
<u>3.2.1.1 CHILLER EQUIPMENT-PROCUREMENT</u>												
	PLC CONTROLS UNITS	<i>U.C. per EA</i>	1.00	EA	0		0	0	2500	0	0	2500
							\$0	\$0	\$2,500	\$0	\$0	\$2,500
	3-WAY CONTROL VALVES	<i>U.C. per EA</i>	5.00	EA	0		0	0	4000	0	0	4000
							\$0	\$0	\$20,000	\$0	\$0	\$20,000
	MANUAL CONTROLS VALVES	<i>U.C. per EA</i>	28.00	EA	0		0	0	1200	0	0	1200
							\$0	\$0	\$33,600	\$0	\$0	\$33,600
	HEATER COIL 300 MBH	<i>U.C. per EA</i>	2.00	EA	0		0	0	1000	0	0	1000
							\$0	\$0	\$2,000	\$0	\$0	\$2,000
	HEATER COIL 420 MBH	<i>U.C. per EA</i>	1.00	EA	0		0	0	1400	0	0	1400
							\$0	\$0	\$1,400	\$0	\$0	\$1,400
	HEATER COIL 1000 MBH	<i>U.C. per EA</i>	2.00	EA	0		0	0	3500	0	0	3500
							\$0	\$0	\$7,000	\$0	\$0	\$7,000
Subtotal							\$0	\$0	\$278,471	\$0	\$0	\$278,471
Sales Tax							\$0	\$0	\$16,708	\$0	\$0	\$16,708
INEEU Subcontractor Overheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$295,179
Escalation							\$0	\$0	\$23,939	\$0	\$0	\$23,939
Contingency							\$0	\$0	\$176,734	\$0	\$0	\$176,734
— Total 3.2.1.1 CHILLER EQUIPMENT-PROCUREMENT					0		\$0	\$0	\$495,852	\$0	\$0	\$495,852

33 BBWI MATERIAL HANDLING FEE

	PROCUREMENT FEE	<i>U.C. per \$</i>	33,769,291.00	\$	0		0	0	0	0	0.12	0.12
							\$0	\$0	\$0	\$0	\$4,052,315	\$4,052,315

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
3.3 BBWI MATERIAL HANDLING FEE												
	G&A											
		U.C. per \$										
		4,052,315.00\$			0			0	0	0	0.38	0.38
							\$0	\$0	\$0	\$0	\$1,539,880	\$1,539,680
<hr/>												
	Subtotal						\$0	\$0	\$0	\$0	\$5,592,195	\$5,592,195
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEUSubcontractorOverheads	0.00%					\$0	\$0	\$0	\$0	\$0	\$0
<hr/>												
	Subtotal Estimate											\$5,592,195
	Escalation						\$0	\$0	\$0	\$0	\$453,527	\$453,527
	Contingency						\$0	\$0	\$0	\$0	\$3,346,234	\$3,348,234
<hr/>												
--Total	3.3 BBWI MATERIAL HANDLING FEE				0		\$0	\$0	\$0	\$0	\$9,393,956	\$9,393,956

4.1 CONSTRUCTION MANAGEMENT

	CONSTRUCTIONMANAGMENT											
		U.C. per \$										
		96,817,74100 \$			0		0	0	0	0	0.07	0.07
							\$0	\$0	\$0	\$0	\$6,777,242	\$6,777,242
<hr/>												
	Subtotal						\$0	\$0	\$0	\$0	\$6,777,242	\$6,777,242
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEUSubcontractorOverheads	0.00%					\$0	\$0	\$0	\$0	\$0	\$0
<hr/>												
	Subtotal Estimate											\$6,777,242
	Escalation						\$0	\$0	\$0	\$0	\$905,440	\$905,440
	Continoency						\$0	\$0	\$0	\$0	\$3,766.408	\$3,766.408
<hr/>												
---Total	4.1 CONSTRUCTIONMANAGEMENT				0		\$0	\$0	\$0	\$0	\$1,144,089	\$1,144,089

4.2.01 GENERAL CONDITIONS

	SUPERVISION	GEN										
			U.C. per HRS									
			521,739.00 HRS		0.12 \$40.00		4.8	0	0	0	0	4.8
				62,609	CN-SUPR		\$2,504,347	\$0	\$0	\$0	\$0	\$2,504,347

Memo: @ 12% of labor hrs. Allow 55% of subcontract price as labor. Assume a \$40/hr rate to arrive at estimated labor hours included in subcontracted work.

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.01 GENERAL CONDITIONS												
	GEN	U.C. per \$					0	0	0	0.006	0	\$128,047
	Mobilization & Demobilization		21,341,140.00	\$	0	CN-SKWK	\$0	\$0	\$0	\$128,047	\$0	\$128,047
Memo: Mobilization/demobilization costs @ .6% of direct construction \$.												
	GEN	U.C. per HRS					0	4	0	0	0	4
	CONSTRUCTION EQUIPMENT ALLOWANCE		521,739.00	HRS	0		\$0	\$2,086,956	\$0	\$0	\$0	\$2,086,956
Memo: @ \$2 50 /LABOR HOUR												
	GEN	U.C. per \$					0	0	0.04	0	0	0.04
	SMALL TOOLS & CONSUMABLES		21,341,140.00	\$	0		\$0	\$0	\$853.646	\$0	\$0	\$853.646
Memo: @ 4% of construction labor \$.												
	GEN	U.C. per HRS			0.08	\$31.58	2.526	0	0	0	0	2.526
	GENERAL CLEANUP		521,739.00	HRS	41,739	CN-LABR	\$1,318,121	\$0	\$0	\$0	\$0	\$1,318,121
Memo: @ 8% of construction labor hours												
	GEN	U.C. per HRS			0.05	\$34.52	1.726	0	0	0	0	1.726
	CONDUCT OF OPERATIONS/CONDUCT OF MAINTENANCE		521,739.00	HRS	26,087	CN-SKWK	\$900,522	\$0	\$0	\$0	\$0	\$900,522
Memo: @ 5% of labor hours.												
	GEN	U.C. per wks			40	\$70.00	2800	0	0	0	0	2800
	QA Manager		104.00	wks	4,160	CN-MGR	\$291,200	\$0	\$0	\$0	\$0	\$291,200
	GEN	U.C. per wks			40	\$20.00	800	0	0	0	0	800
	QA Clerk		104.00	wks	4,160	CN-CLRK	\$83,200	\$0	\$0	\$0	\$0	\$83,200
	GEN	U.C. per wks			120	\$40.00	4800	0	0	0	0	4800
	QC Inspector (ave 3 inspectors)		104.00	wks	12,480	CN-SUPR	\$499,200	\$0	\$0	\$0	\$0	\$499,200
	GEN	U.C. per wks			40		0	315.2	0	0	0	315.2
	QA/QC Pickup (1 pickup)		104.00	wks	4,160	00E2060	\$0	\$32,781	\$0	\$0	\$0	\$32,781
	GEN	U.C. per Wk			80	\$34.20	2736	1250	0	0	0	3986
	Craning Allowance - W/ Operator & Oiler		104.00	Wk	8,320	CN-ENGR	\$284,544	\$130,000	\$0	\$0	\$0	\$414,544

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.01 GENERAL CONDITIONS												
	CONSTRUCTIONWAREHOUSE	GEN	15,000.00	SF	0		\$0	\$0	\$0	\$1,125,000	\$0	\$1,125,000
Memo: Based on Means Facility Cost manual adjusted by our Nine-Block Matrix factors assuming a #6 or 7 on the Matrix.												
Subtotal							\$5,881,134	\$2,249,737	\$853,646	\$1,253,047	\$0	\$10,237,563
Sales Tax							\$0	\$0	\$51,219	\$0	\$0	\$51,219
INEEUSubcontractorOverheads			29.03%				\$1,707,293	\$653,099	\$262,682	\$363,759	\$0	\$2,986,833
Subtotal Estimate												\$13,275,616
Escalation							\$1,013,814	\$387,819	\$155,984	\$216,005	\$0	\$1,773,622
Contingency							\$4,217,386	\$1,613,296	\$648,882	\$898,565	\$0	\$7,378,129
--Total	4.2.01 GENERAL CONDITIONS				159,555		\$1 2,819,627	\$4,903,950	\$1,972,413	\$2,731,377	\$0	\$22,427,367

4.2.02.01.01 Demo Lift Station Concrete

00E1012	GEN	U.C. per hr	80.00	hr	80	00E1012	\$0	\$7,313	\$0	\$0	\$0	\$7,313
Cat 330 1.75cy Hoe												
00E2010	GEN	U.C. per hr	80.00	hr	160	00E2010	\$0	\$5,032	\$0	\$0	\$0	\$5,032
12 cy End Dump												
CN-EQHV	GEN	U.C. per hr	80.00	hr	80	CN-EQHV	\$35.49	\$2,839	\$0	\$0	\$0	\$2,839
Equipment Operators, Crane Or Shovel												
CN-TRHV	GEN	U.C. per hr	80.00	hr	160	CN-TRHV	\$33.48	\$5,357	\$0	\$0	\$0	\$5,357
Truck Drivers, Heavy												

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.02.01.01.01 Demo Lift Station Concrete</u>												
CN-LABE	GEN	<i>U.C. per hr</i>			2	\$32.44	64.88	0	0	0	0	64.88
	LABORER EXCAVATION, BACKFILL, FOUNDATIONS, TRENCHES		80.00	hr	160	CN-LABE	\$5,190	\$0	\$0	\$0	\$0	\$5,190
Subtotal							\$13,386	\$12,345	\$0	\$0	\$0	\$25,731
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads							\$3,886	\$3,584	\$0	\$0	\$0	\$7,470
Subtotal Estimate												\$33,201
Escalation							\$2,308	\$2,128	\$0	\$0	\$0	\$4,436
Contingency							\$9,599	\$8,852	\$0	\$0	\$0	\$18,451
--Total 4.2.02.01.01.01 Demo Lift Station Concrete					400		\$29,179	\$26,909	\$0	\$0	\$0	\$56,088

4.2.02.01.01.02 Demo Lift Station Electrical

00E1310	ELEC	<i>U.C. per hr</i>			1		0	68.68	0	0	0	68.68
	Grove RT522 20 tn Hydraulic Crane		10.00	hr	10	00E1310	\$0	\$687	\$0	\$0	\$0	\$687
CN-EQHV	ELEC	<i>U.C. per hr</i>			1	\$35.49	35.49	0	0	0	0	35.49
	Equipment Operators, Crane Or Shovel		10.00	hr	10	CN-EQHV	\$355	\$0	\$0	\$0	\$0	\$355
00E2040	ELEC	<i>U.C. per hr</i>			1		0	11.08	0	0	0	11.08
	15000lb GVW Flatbed		10.00	hr	10	00E2040	\$0	\$111	\$0	\$0	\$0	\$111
CN-TRHV	ELEC	<i>U.C. per hr</i>			1	\$33.48	33.48	0	0	0	0	33.48
	Truck Drivers, Heavy		10.00	hr	10	CN-TRHV	\$335	\$0	\$0	\$0	\$0	\$335
00E2060	ELEC	<i>U.C. per hr</i>			1		0	7.88	0	0	0	7.88
	3/4 tn 4x4 Pickup		40.00	hr	40	00E2060	\$0	\$315	\$0	\$0	\$0	\$315

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D. Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.02.01.01.02 Demo Lift Station Electrical												
CN-ELEC	ELEC	<i>U.C. per hr</i>			2	\$35.89	71.78	0	0	0	0	71.78
Electricians			40.00	hr	80	CN-ELEC	\$2,871	\$0	\$0	\$0	\$0	\$2,871
Subtotal							\$3,561	\$1,113	\$0	\$0	\$0	\$4,674
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads							\$1,713	\$535	\$0	\$0	\$0	\$2,248
Subtotal Estimate												\$6,922
Escalation							\$705	\$220	\$0	\$0	\$0	\$925
Contingency							\$2,931	\$916	\$0	\$0	\$0	\$3,847
—Total 4.2.02.01.01.02 Demo Lift Station Electrical					100		\$8,909	\$2,784	\$0	\$0	\$0	\$11,693

4.2.02.01.01.03 Demo Fire Pipe in Berm

00E1012	GEN	<i>U.C. per hr</i>			1		0	91.41	0	0	0	91.41
Cat 330 1.75 cy Hoe			20.00	hr	20	00E1012	\$0	\$1,828	\$0	\$0	\$0	\$1,828
00E2010	GEN	<i>U.C. per hr</i>			2		0	62.9	0	0	0	62.9
12 cy End Dump			20.00	hr	40	00E2010	\$0	\$1,258	\$0	\$0	\$0	\$1,258
CN-EQHV	GEN	<i>U.C. per hr</i>			1	\$35.49	35.49	0	0	0	0	35.49
Equipment Operators, Crane Or Shovel			20.00	hr	20	CN-EQHV	\$710	\$0	\$0	\$0	\$0	\$710
CN-TRHV	GEN	<i>U.C. per hr</i>			2	\$33.48	66.96	0	0	0	0	66.96
Truck Drivers, Heavy			20.00	hr	40	CN-TRHV	\$1,339	\$0	\$0	\$0	\$0	\$1,339

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.02.01.01.03 Demo Fire Pipe in Berm</u>												
CN-LABE	GEN	<i>U.C. per hr</i>	20.00	hr	2	\$32.44	64.88	0	0	0	0	64.88
	LABORER EXCAVATION, BACKFILL, FOUNDATIONS, TRENCHES				40	CN-LABE	\$1,298	\$0	\$0	\$0	\$0	\$1,298
Subtotal							\$3,347	\$3,086	\$0	\$0	\$0	\$6,433
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEV Subcontractor Overheads							\$972	\$896	\$0	\$0	\$0	\$1,867
Subtotal Estimate												\$8,300
Escalation							\$577	\$532	\$0	\$0	\$0	\$1,109
Contingency							\$2,400	\$2,213	\$0	\$0	\$0	\$4,613
--Total 4.2.02.01.01.03 Demo Fire Pipe in Berm					100		\$7,295	\$6,727	\$0	\$0	\$0	\$14,022

4.2.02.01.01.04 Excavate New Basin

00E1012	GEN	<i>U.C. per hr</i>	60.00	hr	1		0	91.41	0	0	0	91.41
	Cat 330 1.75 cy Hoe				60	00E1012	\$0	\$5,485	\$0	\$0	\$0	\$5,485
CN-EQHV	GEN	<i>U.C. per hr</i>	60.00	hr	1	\$35.49	35.49	0	0	0	0	35.49
	Equipment Operators, Crane Or Shovel				60	CN-EQHV	\$2,129	\$0	\$0	\$0	\$0	\$2,129
00E2010	GEN	<i>U.C. per hr</i>	60.00	hr	2		0	62.9	0	0	0	62.9
	12 cy End Dump				120	00E2010	\$0	\$3,774	\$0	\$0	\$0	\$3,774

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.02.01.01.04 Excavate New Basin</u>												
CN-TRHV	Truck Drivers, Heavy	GEN										
			<i>U.C. per hr</i>									
			60.00	hr	2	\$33.48	66.96	0	0	0	0	66.96
					120	CN-TRHV	\$4,018	\$0	\$0	\$0	\$0	\$4,018
Subtotal							\$6,147	\$9,259	\$0	\$0	50	\$15,406
Sales Tax							\$0	\$0	\$0	50	\$0	\$0
INEEL/Subcontractor Overheads							\$1,784	\$2,688	\$0	\$0	\$0	\$4,472
Subtotal Estimate												\$19,878
Escalation							\$1,060	\$1,596	\$0	\$0	\$0	\$2,656
Contingency							\$4,408	56,639	\$0	\$0	\$0	511,047
--Total 4.2.02.01.01.04 Excavate New Basin					180		\$13,399	\$20,181	\$0	\$0	\$0	\$33,580

4.2.02.01.01.05 Relocate North Berm

00E1012	Cat 330 1.75 cy Hoe	GEN	<i>U.C. per hr</i>									
			240.00	hr	1		0	91.41	0	0	0	91.41
					240	00E1012	\$0	\$21,938	\$0	\$0	\$0	\$21,938
00E0610	Cat 815 Sheepsfoot	GEN	<i>U.C. per hr</i>									
			240.00	hr	1		0	75.65	0	0	0	75.65
					240	00E0610	\$0	\$18,156	50	\$0	\$0	\$18,156
00E0962	Cat D7 Dozer	GEN	<i>U.C. per hr</i>									
			240.00	hr	1		0	86.72	0	0	0	86.72
					240	00E0962	\$0	\$20,813	50	\$0	50	\$20,813
CN-EQHV	Equipment Operators, Crane Or Shovel	GEN	<i>U.C. per hr</i>									
			240.00	hr	3	\$35.49	106.47	0	0	0	0	106.47
					720	CN-EQHV	\$25,553	50	\$0	\$0	50	525,553
00E2010	12 cy End Dump	GEN	<i>U.C. per hr</i>									
			240.00	hr	2		0	62.9	0	0	0	62.9
					480	00E2010	\$0	\$15,096	\$0	\$0	50	\$15,096

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>EquipDment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.02.01.01.05 Relocate North Berm												
CN-TRHV	Truck Drivers, Heavy	GEN	240.00	hr	480	U.C. per hr \$33.48 CN-TRHV	66.96 \$16,070	0 \$0	0 \$0	0 \$0	0 \$0	66.96 \$16,070
Subtotal							\$41,623	\$76,003	\$0	\$0	\$0	\$1 17,626
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads							\$12,083	\$22,064	\$0	\$0	\$0	\$34,147
Subtotal Estimate												\$151,773
Escalation							\$7,175	\$13,102	\$0	\$0	\$0	\$20,277
Contingency							\$29,847	\$54,499	\$0	\$0	\$0	\$84,346
--Total 4.2.02.01.01.05 Relocate North Berm					1,200		\$90,728	\$165,668	\$0	\$0	\$0	\$256,396
4.2.02.01.01.06 Ex & Backfill Discharge Pipe												
00E1012	Cat 330 1.75 cy Hoe	GEN	30.00	hr	30	U.C. per hr \$0	0 \$0	91.41 \$2,742	0 \$0	0 \$0	0 \$0	91.41 \$2,742
00E0610	Cat 815 Sheepsfoot	GEN	30.00	hr	30	U.C. per hr \$0	0 \$0	75.65 \$2,270	0 \$0	0 \$0	0 \$0	75.65 \$2,270
CN-EQHV	Equipment Operators, Crane Or Shovel	GEN	30.00	hr	60	U.C. per hr \$35.49 CN-EQHV	70.98 \$2,129	0 \$0	0 \$0	0 \$0	0 \$0	70.98 \$2,129
Subtotal							\$2,129	\$5,012	\$0	\$0	\$0	\$7,141
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads							\$618	\$1,455	\$0	\$0	\$0	\$2,073
Subtotal Estimate												\$9,214
Escalation							\$367	\$864	\$0	\$0	\$0	\$1,231
Contingency							\$1,527	\$3,594	\$0	\$0	\$0	\$5,121
--Total 4.2.02.01.01.06 Ex & Backfill Discharge Pipe					60		\$4,642	\$10,924	\$0	\$0	\$0	\$15,566

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.02.01.02.01 Concrete Lift Station												
	Fine Grade	GEN	80.00	sf	0.1 8	\$31.58 CN-LABR	3.158 \$253	0.02 \$2	0 \$0	0 \$0	0 \$0	3.178 \$254
	Form & Strip	GEN	720.00	sf	0.2 144	\$37.16 CN-CARC	7.432 \$5,351	1.35 \$972	0 \$0	0 \$0	0 \$0	8.782 \$6,323
	Place Rebar	GEN	1,440.00	lb	0.012 17	\$43.50 CN-IRON	0.522 \$752	0.05 \$72	0.35 \$504	0 \$0	0 \$0	0.922 \$1,328
	Place Concrete	GEN	12.00	cy	0.5 6	\$31.58 CN-LABR	15.79 \$189	0 \$0	100 \$1,200	0 \$0	0 \$0	115.79 \$1,389
	Screed Concrete	GEN	160.00	sf	0.006 1	\$31.58 CN-LABR	0.19 \$30	0.02 \$3	0 \$0	0 \$0	0 \$0	0.21 \$34
	Trowel Concrete	GEN	160.00	sf	0.015 2	\$31.58 CN-LABR	0.474 \$76	0.08 \$13	0 \$0	0 \$0	0 \$0	0.554 \$89
	Cure Concrete	GEN	880.00	sf	0.01 9	\$31.58 CN-LABR	0.316 \$278	0.06 \$53	0 \$0	0 \$0	0 \$0	0.376 \$331
	Embeds	GEN	1,000.00	lb	0.08 80	\$37.16 CN-CARC	2.973 \$2,973	0 \$0	3 \$3,000	0 \$0	0 \$0	5.973 \$5,973
Subtotal							\$9,902	\$1,114	\$4,704	\$0	\$0	\$15,720
Sales Tax							\$0	\$0	\$282	\$0	\$0	\$282
INEEUSubcontractorOverheads							\$2,874	\$324	\$1,448	\$0	\$0	\$4,645
Subtotal Estimate												\$20,648
Escalation							\$1,707	\$192	\$860	\$0	\$0	\$2,759
Contingency							\$7,100	\$799	\$3,575	\$0	\$0	\$11,475
—Total 4.2.02.01.02.01 Concrete Lift Station					267		\$21,583	\$2,429	\$10,869	\$0	\$0	\$34,881

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.02.01.02.02 Ductbank Concrete</u>												
	Form & Strip	GEN			<i>U.C. per sf</i>							
			200.00	sf	0.18 36	\$37.16 CN-CARC	6.689 \$1,338	1.35 \$270	0 \$0	0 \$0	0 \$0	8.039 \$1,608
	Place Rebar	GEN			<i>U.C. per lb</i>							
			420.00	lb	0.012 5	\$43.50 CN-IRON	0.522 \$219	0.05 \$21	0.35 \$147	0 \$0	0 \$0	0.922 \$387
	Place Concrete	GEN			<i>U.C. per cy</i>							
			6.00	cy	2 12	\$31.58 CN-LABR	63.16 \$379	0 \$0	100 \$600	0 \$0	0 \$0	163.16 \$979
Subtotal							\$1,936	\$291	\$747	\$0	\$0	\$2,974
Sales Tax							\$0	\$0	\$45	\$0	\$0	\$45
INEEUSubcontractorOverheads							\$562	\$84	\$230	\$0	\$0	\$876
Subtotal Estimate												\$3,895
Escalation							\$334	\$50	\$136	\$0	\$0	\$520
Contingency							\$1,388	\$209	\$568	\$0	\$0	\$2,165
--Total 4.2.02.01.02.02 Ductbank Concrete					53		\$4,220	\$634	\$1,726	\$0	\$0	\$6,580

4.2.02.01.05 METALS

	Grating	STEEL			<i>U.C. per sf</i>							
			40.00	sf	0.3 12	\$43.50 CN-IRON	13.05 \$522	0 \$0	5 \$200	0 \$0	0 \$0	18.05 \$722

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.02.01.05 METALS												
	Gates	STEEL										
		<i>U.C. per ea</i>	2.00	ea	15 30	\$43.50 CN-IRON	652.5 \$1,305	0 \$0	1000 \$2,000	0 \$0	0 \$0	1652.5 \$3,305
Subtotal							\$1,827	\$0	\$2,200	\$0	\$0	\$4,027
Sales Tax							\$0	\$0	\$132	\$0	\$0	\$132
INEEUSubcontractorOverheads							\$766	\$0	\$978	\$0	\$0	\$1,744
Subtotal Estimate												\$5,903
Escalation							\$346	\$0	\$442	\$0	\$0	\$789
Contingency							\$1,441	\$0	\$1,839	\$0	\$0	\$3,281
--Total 4.2.02.01.05 METALS					42		\$4,381	\$0	\$5,591	\$0	\$0	\$9,972

4.2.02.01.15 MECHANICAL

	6" Pipe	PIPE										
		<i>U.C. per lf</i>	20.00	lf	0.75 15	\$39.33 CN-PIPE	29.498 \$590	0 \$0	30 \$600	0 \$0	0 \$0	59.498 \$1,190
	Pipe Supports	PIPE										
		<i>U.C. per ea</i>	10.00	ea	2 20	\$39.33 CN-PIPE	78.66 \$787	0 \$0	10 \$100	0 \$0	0 \$0	88.66 \$887
	Totalizer	PIPE										
		<i>U.C. per ea</i>	1.00	ea	2 2	\$39.33 CN-PIPE	78.66 \$79	0 \$0	2000 \$2,000	0 \$0	0 \$0	2078.66 \$2,079

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D. Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.02.01.15MECHANICAL</u>												
	PIPE	<i>U.C. per lf</i>			<i>0.3</i>	<i>\$39.33</i>	<i>11.799</i>	<i>0</i>	<i>14</i>	<i>0</i>	<i>0</i>	<i>25.799</i>
	3 0 CMP Discharge Pipe		400.00	lf	120	CN-PIPE	\$4,720	\$0	\$5,600	\$0	\$0	\$1 0,320
Subtotal							\$6,175	\$0	\$8,300	\$0	\$0	\$14,475
Sales Tax							\$0	\$0	\$498	\$0	\$0	\$498
INEEUSubcontractorOverheads							\$2,970	\$0	\$4,232	\$0	\$0	\$7,203
Subtotal Estimate												\$22,175
Escalation							\$1,222	\$0	\$1,741	\$0	\$0	\$2,963
Contingency							\$5,082	\$0	\$7,241	\$0	\$0	\$12,324
---	Total 4.2.02.01.15MECHANICAL				157		\$15,449	\$0	\$22,012	\$0	\$0	\$37,462

4.2.02.01.16.01Switchgear & Transformers

	ELEC	<i>U.C. per Ea</i>			<i>2</i>	<i>\$35.89</i>	<i>71.78</i>	<i>0</i>	<i>550</i>	<i>0</i>	<i>0</i>	<i>621.78</i>
	Fused Disc Switch, 480 volt 3R disc		1.00	Ea	2	CN-ELEC	\$72	\$0	\$550	\$0	\$0	\$622
Memo: Panel pricing is based on GE Buy Log.												
Subtotal							\$72	\$0	\$550	\$0	\$0	\$622
Sales Tax							\$0	\$0	\$33	\$0	\$0	\$33
INEEUSubcontractorOverheads							\$35	\$0	\$280	\$0	\$0	\$315
Subtotal Estimate												\$970
Escalation							\$14	\$0	\$115	\$0	\$0	\$130
Contingency							\$59	\$0	\$480	\$0	\$0	\$539
---	Total 4.2.02.01.16.01Switchgear & Transformers				2		\$180	\$0	\$1,459	\$0	\$0	\$1,638

4.2.02.01.16.02Raceways & Fittings

	ELEC	<i>U.C. per lf</i>			<i>0.15</i>	<i>\$35.89</i>	<i>5.384</i>	<i>0</i>	<i>1.35</i>	<i>0</i>	<i>0</i>	<i>6.734</i>
	1" GRS conduit		20.00	lf	3	CN-ELEC	\$108	\$0	\$27	\$0	\$0	\$135
	ELEC	<i>U.C. per Ea</i>			<i>0.35</i>	<i>\$35.89</i>	<i>12.56</i>	<i>0</i>	<i>12</i>	<i>0</i>	<i>0</i>	<i>24.56</i>
	1" LB w/GASK and Cover		2.00	Ea	1	CN-ELEC	\$25	\$0	\$24	\$0	\$0	\$49

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project* Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.02.01.16.02 Raceways & Fittings												
1" LTF Conduit	ELEC	<i>U.C. per lf</i>	10.00	lf	0.2	\$35.89	7.178	0	2.5	0	0	9.678
					2	CN-ELEC	\$72	\$0	\$25	\$0	\$0	\$97
2" rigid conduit	ELEC	<i>U.C. per Lf</i>	200.00	Lf	0.1	\$35.89	3.589	0	2.75	0	0	6.339
					20	CN-ELEC	\$718	\$0	\$550	\$0	\$0	\$1,268
2 spacers	ELEC	<i>U.C. per Ea</i>	20.00	Ea	0.1	\$35.89	3.589	0	1	0	0	4.589
					2	CN-ELEC	\$72	\$0	\$20	\$0	\$0	\$92
P-1000 Unistrut	ELEC	<i>U.C. per Lf</i>	20.00	Lf	0.12	\$35.89	4.307	0	3.5	0	0	7.807
					2	CN-ELEC	\$86	\$0	\$70	\$0	\$0	\$156
P-1000 Unistrut fittings, allowance	ELEC	<i>U.C. per Ls</i>	1.00	Ls	4	\$35.89	143.56	0	50	0	0	193.56
					4	CN-ELEC	\$144	\$0	\$50	\$0	\$0	\$194
Subtotal							\$1,224	\$0	\$766	\$0	\$0	\$1,990
Sales Tax							\$0	\$0	\$46	\$0	\$0	\$46
INEEUSubcontractorOverheads							\$589	\$0	\$391	\$0	\$0	\$979
Subtotal Estimate												\$3,015
Escalation							\$242	\$0	\$161	\$0	\$0	\$403
Contingency							\$1,007	\$0	\$668	\$0	\$0	\$1,676
--Total 4.2.02.01.16.02 Raceways & Fittings					34		\$3,062	\$0	\$2,032	\$0	\$0	\$5,094

4.2.02.01.16.03 Conductors & Grounding

#2 bare copper	ELEC	<i>U.C. per Lf</i>	250.00	Lf	0.02	\$35.89	0.718	0	0.35	0	0	1.068
					5	CN-ELEC	\$179	\$0	\$88	\$0	\$0	\$267
#8 thhn copper wire	ELEC	<i>U.C. per Lf</i>	1,000.00	Lf	0.012	\$35.89	0.431	0	0.13	0	0	0.561
					12	CN-ELEC	\$431	\$0	\$130	\$0	\$0	\$561
Allowance for jet-line, tru tape, pull rope	ELEC	<i>U.C. per Ls</i>	1.00	Ls	4	\$35.89	143.56	0	50	0	0	193.56
					4	CN-ELEC	\$144	\$0	\$50	\$0	\$0	\$194

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.02.01.16.03 Conductors & Grounding</u>												
	Terminations	ELEC	U.C. per ea		0.25	\$35.89	8.973	0	0.5	0	0	9.473
			20.00	ea	5	CN-ELEC	\$179	\$0	\$10	\$0	\$0	\$189
Subtotal							\$933	\$0	\$278	\$0	\$0	\$1,211
Sales Tax							\$0	\$0	\$17	\$0	\$0	\$17
INEEVSubcontractorOverheads							\$449	\$0	\$141	\$0	\$0	\$590
Subtotal Estimate												\$1,818
Escalation							\$185	\$0	\$58	\$0	\$0	\$243
Contingency							\$768	\$0	\$242	\$0	\$0	\$1,010
---	Total 4.2.02.01.16.03 Conductors & Grounding				26		\$2,335	\$0	\$736	\$0	\$0	\$3,071

4.2.02.01.16.04 Testing

	Testing of systems and equipment	ELEC	U.C. per Ls	1.00	Ls	30 30	\$35.89 CN-ELEC	1076.7 \$1,077	0 \$0	0 \$0	0 \$0	0 \$0	1076.7 \$1,077
	Subtotal							\$1,077	\$0	\$0	\$0	\$0	\$1,077
	Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
	INEEL/Subcontractor Overheads		48.10%					\$518	\$0	\$0	\$0	\$0	\$518
	Subtotal Estimate												\$1,595
	Escalation							\$213	\$0	\$0	\$0	\$0	\$213
	Contingency							\$886	\$0	\$0	\$0	\$0	\$886
--Total 4.2.02.01.16.04 Testing					30			\$2,694	\$0	\$0	\$0	\$0	\$2,694

4.2.02.02.01 RFS EARTHWORK

	FOUNDATION EXCAVATION	DIRT	U.C. per CY	4,855.00	CY	0		0 \$0	0 \$0	0 \$0	3.51 \$17,041	0 \$0	3.51 \$17,041
	FOUNDATION BACKFILL& COMPACT	DIRT	U.C. per CY	4,456.00	CY	0		0 \$0	0 \$0	0 \$0	13.87 \$61,805	0 \$0	13.87 \$61,805

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
Project Location: **INEEL-RWMC**
Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
Prepared By: **S.N. Wasley/R.D.Adams**
Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.02.02.01 RFS EARTHWORK</u>												
	DIRT OVERBURDEN STAGING PIT EXCAVATION	<i>U.C. per CY</i>	3,513.00	CY	0		0 \$0	0 \$0	0 \$0	3.51 \$12,331	0 \$0	3.51 \$12,331
	DIRT PIT BACKFILL & COMPACT	<i>U.C. per CY</i>	597.00	CY	0		0 \$0	0 \$0	0 \$0	13.87 \$8,280	0 \$0	13.87 \$8,280
	DIRT SPREADEXCESSEXCAVATED MATERIAL	<i>U.C. per CY</i>	3,315.00	CY	0		0 \$0	0 \$0	0 \$0	1.8 \$5,967	0 \$0	1.8 \$5,967
	PILING SHEET PILING	<i>U.C. per SF</i>	7,875.00	SF	0.095 748	\$37.43 B40	3.555 \$28,000	4.674 \$36,804	15.38 \$121,118	0 \$0	0 \$0	23.609 \$185,921
	PILING SHEET PILING - MOB/DEMOB	<i>U.C. per LS</i>	1.00	LS	142 142	537.43 B40 MOB	5314.53 \$5,315	4881.69 \$4,882	0 \$0	0 \$0	0 \$0	10196.22 \$10,196
Subtotal							\$33,314	\$41,686	\$121,118	\$105,424	\$0	\$301,541
Sales Tax							\$0	\$0	\$7,267	\$0	\$0	\$7,267
INEEUSubcontractorOverheads							\$13,970	\$17,480	\$53,835	\$44,207	\$0	\$129,493
<hr/>												
Subtotal Estimate												\$438,301
Escalation							\$6,317	\$7,905	\$24,345	\$19,991	\$0	\$58,557
Contingency							\$26,277	\$32,881	\$101,266	\$83,155	\$0	\$243,580
<hr/>												
--Total 4.2.02.02.01 RFS EARTHWORK					890		\$79,878	\$99,951	\$307,831	\$252,777	\$0	\$740,437

4.2.02.02.02 WASH BAY EARTHWORK

	DIRT FOUNDATION EXCAVATION	<i>U.C. per CY</i>	324.00	CY	0		0 \$0	0 \$0	0 \$0	3.51 \$1,137	0 \$0	3.51 \$1,137
	DIRT FOUNDATION BACKFILL & COMPACT	<i>U.C. per CY</i>	119.00	CY	0		0 \$0	0 \$0	0 \$0	13.87 \$1,651	0 \$0	13.87 \$1,651

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>EquiDment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.02.02.02 WASH BAY EARTHWORK</u>												
	DIRT	<i>U.C. per CY</i>					0	0	0	1.8	0	1.8
	SPREADEXCESSEXCAVATEDMATERIAL		205.00	CY	0		\$0	\$0	\$0	\$369	\$0	\$369
Subtotal							\$0	\$0	\$0	\$3,157	\$0	\$3,157
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEVSubcontractor Overheads							\$0	\$0	\$0	\$1,324	\$0	\$1,324
Subtotal Estimate												\$4,480
Escalation							\$0	\$0	\$0	\$599	\$0	\$599
Contingency							\$0	\$0	\$0	\$2,490	\$0	\$2,490
--Total 4.2.02.02.02 WASH BAY EARTHWORK					0		\$0	\$0	\$0	\$7,569	\$0	\$7,569
<u>4.2.02.02.04 MAIN SUPPORT BUILDING EARTHWORK</u>												
	DIRT	<i>U.C. per CY</i>					0	0	0	3.51	0	3.51
	FOUNDATION EXCAVATION		1,938.00	CY	0		\$0	\$0	\$0	\$6,802	\$0	\$6,802
	DIRT	<i>U.C. per CY</i>					0	0	0	13.87	0	13.87
	FOUNDATION BACKFILL& COMPACT		205.00	CY	0		\$0	\$0	\$0	\$2,843	\$0	\$2,843
	DIRT	<i>U.C. per CY</i>					0	0	0	1.8	0	1.8
	SPREADEXCESSEXCAVATEDMATERIAL		1,733.00	CY	0		\$0	\$0	\$0	\$3,119	\$0	\$3,119
Subtotal							\$0	\$0	\$0	\$12,765	\$0	\$12,765
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEVSubcontractor Overheads							\$0	\$0	\$0	\$5,353	\$0	\$5,353
Subtotal Estimate												\$18,118
Escalation							\$0	\$0	\$0	\$2,421	\$0	\$2,421
Continaency							\$0	\$0	\$0	\$10,069	\$0	\$10,069
--Total 4.2.02.02.04 MAIN SUPPORT BUILDING EARTHWORK					0		\$0	\$0	\$0	\$30,607	\$0	\$30,607

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.02.02.07 CHARACTERIZATION AIRLOCK EARTHWORK												
	DIRT FOUNDATION EXCAVATION	<i>U.C. per CY</i>	1,024.00	CY	0		0 \$0	0 \$0	0 \$0	3.51 \$3,594	0 \$0	3.51 \$3,594
	DIRT FOUNDATION BACKFILL & COMPACT	<i>U.C. per CY</i>	943.00	CY	0		0 \$0	0 \$0	0 \$0	13.87 \$13,079	0 \$0	13.87 \$13,079
	DIRT SPREAD EXCESS EXCAVATED MATERIAL	<i>U.C. per CY</i>	81.00	CY	0		0 \$0	0 \$0	0 \$0	1.8 \$146	0 \$0	1.8 \$146
Subtotal							\$0	\$0	\$0	\$16,819	\$0	\$16,819
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEL Subcontractor Overheads							\$0	\$0	\$0	\$7,053	\$0	\$7,053
Subtotal Estimate												\$23,872
Escalation							\$0	\$0	\$0	\$3,189	\$0	\$3,189
Contingency							\$0	\$0	\$0	\$13,267	\$0	\$13,267
--Total 4.2.02.02.07 CHARACTERIZATION AIRLOCK EARTHWORK					0		\$0	\$0	\$0	\$40,328	\$0	\$40,328

4.2.02.03 ROADWAYS & PAVING

4" ASPHALT PAVING	GEN	<i>U.C. per TN</i>	1,283.00	TN	0		0 \$0	0 \$0	0 \$0	80 \$102,640	0 \$0	80 \$102,640
LEVELING COURSE CRUSHED GRAVEL	GEN	<i>U.C. per CYD</i>	1,082.00	CYD	0		0 \$0	0 \$0	0 \$0	35 \$37,870	0 \$0	35 \$37,870

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.02.03 ROADWAYS& PAVING												
	PIT RUN FILL	GEN	U.C. per CYD	2,100.00	CYD	0		0	0	15	0	15
							\$0	\$0	\$0	\$31,500	\$0	\$31,500
Subtotal							\$0	\$0	\$0	\$172,010	\$0	\$172,010
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEU Subcontractor Overheads							\$0	\$0	\$0	\$49,935	\$0	\$49,935
Subtotal Estimate												\$221,945
Escalation							\$0	\$0	\$0	\$29,652	\$0	\$29,652
Contingency							\$0	\$0	\$0	\$123,343	\$0	\$123,343
---Total 4.2.02.03 ROADWAYS& PAVING						0	\$0	\$0	\$0	\$374,939	\$0	\$374,939

4.2.03.01 RFS CONCRETE

FOUNDATION WALLS	GEN	U.C. per CY	244.00	CY	0		0	0	0	430	0	430
							\$0	\$0	\$0	\$104,920	\$0	\$104,920
COLUMN FOOTINGS	GEN	U.C. per CY	155.00	CY	0		0	0	0	430	0	430
							\$0	\$0	\$0	\$66,650	\$0	\$66,650
EXISTING RAIL FDN. TOPPING	GEN	U. C. per CY	541.00	CY	0		0	0	0	430	0	430
							\$0	\$0	\$0	\$232,630	\$0	\$232,630
FLOORS	GEN	U.C. per CY	541.00	CY	0		0	0	0	430	0	430
							\$0	\$0	\$0	\$232,630	\$0	\$232,630
AGV TRACK	GEN	U.C. per CY	577.00	CY	0		0	0	0	430	0	430
							\$0	\$0	\$0	\$248,110	\$0	\$248,110

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
Prepared By: **S.N. Wasley/R.D.Adams**
Estimate Type: **Project Support**

<u>Code</u>	<u>DescriDtion</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.03.01	RFS CONCRETE											
	GEN OVERBURDEN STAGING PIT WALLS & BASE SLAB	U.C. per CY	636.00	CY	0		0 \$0	0 \$0	0 \$0	430 \$273,480	0 \$0	430 \$273,480
	Subtotal						\$0	\$0	\$0	\$1,158,420	\$0	\$1,158,420
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEL/Subcontractor Overheads	29.03%					\$0	\$0	\$0	\$336,289	\$0	\$336,289
	Subtotal Estimate											\$1,494,709
	Escalation						\$0	\$0	\$0	\$199,693	\$0	\$199,693
	Contingency						\$0	\$0	\$0	\$830,699	\$0	\$830,699
—Total	4.2.03.01 RFS CONCRETE				0		\$0	\$0	\$0	\$2,525,101	\$0	\$2,525,101

4.2.03.02 WASH BAY CONCRETE

	GEN	U.C. per CY	0	0	0	430	0	430			
BASIN FLOOR & WALLS		47.00	CY	0	\$0	\$0	\$0	\$20,210	\$0	\$20,210	
					\$0	\$0	\$0	\$20,210	\$0	\$20,210	
Subtotal					\$0	\$0	\$0	\$20,210	\$0	\$20,210	
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0	
INEEUSubcontractorOverheads					\$0	\$0	\$0	\$5,867	\$0	\$5,867	
Subtotal Estimate										\$26,077	
Escalation					\$0	\$0	\$0	\$3,484	\$0	\$3,484	
Contingency					\$0	\$0	\$0	\$14,493	\$0	\$14,493	
—Total 4.2.03.02 WASH BAY CONCRETE					0	\$0	\$0	\$0	\$44,053	\$0	\$44,053

4.2.03.04 MAIN SUPPORT BUILDING CONCRETE

GEN	U.C. perCY	0	0	0	430	0	430	
FLOOR & FOUNDATION WALLS	955.00 CY	0	\$0	\$0	\$0	\$410,650	\$0	\$410,650

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.03.04 MAIN SUPPORT BUILDING CONCRETE												
	Subtotal						\$0	\$0	\$0	\$410,650	\$0	\$410,650
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEUSubcontractorOverheads	29.03%					\$0	\$0	\$0	\$119,212	\$0	\$119,212
	Subtotal Estimate											\$529,862
	Escalation						\$0	\$0	\$0	\$70,790	\$0	\$70,790
	Contingency						\$0	\$0	\$0	\$294,476	\$0	\$294,476
--Total 4.2.03.04 MAIN SUPPORT BUILDING CONCRETE					0		\$0	\$0	\$0	\$895,127	\$0	\$895,127

4.2.03.07 CHARACTERIZATION AIRLOCK CONCRETE

	GEN FLOOR & FOUNDATION WALLS	<i>U.C. per CY</i>	159.00 CY		0		\$0	\$0	\$0	\$68,370	\$0	\$68,370
	Subtotal						\$0	\$0	\$0	\$68,370	\$0	\$68,370
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEUSubcontractorOverheads	29.03%					\$0	\$0	\$0	\$19,848	\$0	\$19,848
	Subtotal Estimate											\$88,218
	Escalation						\$0	\$0	\$0	\$11,786	\$0	\$11,786
	Contingency						\$0	\$0	\$0	\$49,028	\$0	\$49,028
--Total 4.2.03.07 CHARACTERIZATION AIRLOCK CONCRETE					0		\$0	\$0	\$0	\$149,032	\$0	\$149,032

4.2.05.01 RFS STRUCTURAL STEEL

	STEEL STRUCTURAL STEEL & TRUSS	<i>U.C. per TONS</i>	1,718.00 TONS	10.2	\$42.71	435.676	241.57	1668	0	0	2345,246
				17,524	STEEL1	\$748,491	\$415,017	\$2,865,624	\$0	\$0	\$4,029,133

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.05.01.01 RFS STRUCTURAL STEEL</u>												
	Subtotal						\$748,491	\$415,017	\$2,865,624	\$0	\$0	\$4,029,133
	Sales Tax						\$0	\$0	\$171,937	\$0	\$0	\$171,937
	INEEUSubcontractorOverheads	41.93%					\$313,865	\$174,029	\$1,273,741	\$0	\$0	\$1,761,635
	Subtotal Estimate											\$5,962,705
	Escalation						\$141,931	\$78,697	\$575,990	\$0	\$0	\$796,617
	Contingency						\$590,385	\$327,352	\$2,395,925	\$0	\$0	\$3,313,661
--Total	4.2.05.01.01 RFS STRUCTURAL STEEL				17,524		\$1,794,672	\$995,095	\$7,203,217	\$0	\$0	\$10,072,983
<u>4.2.05.01.02 RFS MISC. METALS</u>												
055207800020	STEEL	<i>U.C. per L.F.</i>			<i>0.125</i>	<i>\$43.62</i>	<i>5.452</i>	<i>0.346</i>	<i>14.4</i>	<i>0</i>	<i>0</i>	<i>20.199</i>
	Railings, industrial welded, 2 rail, 3'-6" high, 1-1/2" pipe		12,866.00	L.F.	1,608	E4	\$70,152	\$4,453	\$185,270	\$0	\$0	\$259,875
055145000020	STEEL	<i>U.C. per V.L.F.</i>			<i>0.64</i>	<i>\$43.62</i>	<i>27.917</i>	<i>1.772</i>	<i>55.5</i>	<i>0</i>	<i>0</i>	<i>85.189</i>
	Ladder, steel, 20' wide, bolted to concrete, with cage		286.00	V.L.F.	183	E4	\$7,984	\$507	\$15,873	\$0	\$0	\$24,364
055303400474	STEEL	<i>U.C. per S.F.</i>			<i>0.093</i>	<i>\$41.67</i>	<i>3.875</i>	<i>2.36</i>	<i>11.2</i>	<i>0</i>	<i>0</i>	<i>17.435</i>
	Floor grtg. plaf, cross bars @ 2" o.c., 1-1/4" x 3/16", over 300 S.F.		21,112.00	S.F.	1,963	E2	\$81,813	\$49,822	\$236,454	\$0	\$0	\$368,089
055177000100	STEEL	<i>U.C. per Riser</i>			<i>1.067</i>	<i>\$43.62</i>	<i>46.543</i>	<i>2.954</i>	<i>137</i>	<i>0</i>	<i>0</i>	<i>186.497</i>
	Stair, stl, sfty nsg, stl stringers, grtg trd, piperlng, 4'-0" wide		72.00	Riser	77	E4	\$3,351	\$213	\$9,864	\$0	\$0	\$13,428
	STEEL	<i>U.C. per EA</i>					<i>0</i>	<i>0</i>	<i>0</i>	<i>15000</i>	<i>0</i>	<i>15000</i>
	EMERGENCY EXIT STAIRWAYS -ALLOWANCE		6.00	EA	0	E4	\$0	\$0	\$0	\$90,000	\$0	\$90,000

DETAIL ITEM REPORT

Project Name: *OU 7-10 Staged Interim Action*
Stage III Project - Retrieval System Project - Option 2
 Project Location: *INEEL-RWMC*
 Estimate Number: *5974-2 Option 2-R*

Client: *S. L. Austad*
 Prepared By: *S.N. Wasley/R.D.Adams*
 Estimate Type: *Project Support*

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.05.01.02 RFS MISC. METALS												
	HEPA FILTER PLATFORMS	STEEL										
		<i>U.C. per LBS</i>										
			900.00	LBS	0.013 11	\$43.62 E4	0.545 \$491	0.035 \$31	3 \$2,700	0 \$0	0 \$0	3.58 \$3,222
Subtotal							\$163,791	\$55,025	\$450,162	\$90,000	\$0	\$758,978
Sales Tax							\$0	\$0	\$27,010	\$0	\$0	\$27,010
INEEUSubcontractorOverheads							\$68,682	\$23,074	\$200,092	\$37,740	\$0	\$329,588
Subtotal Estimate												\$1,115,575
Escalation							\$31,058	\$10,434	\$90,482	\$17,066	\$0	\$149,041
Contingency							\$129,192	\$43,402	\$376,377	\$70,989	\$0	\$619,960
---Total 4.2.05.01.02 RFS MISC. METALS					3,043		\$392,724	\$131,935	\$1,144,123	\$215,795	\$0	\$1,884,576

4.2.05.02 WASH BAY METALS

	HD SST GRATING FLOOR	STEEL										
		<i>U.C. per SF</i>										
			850.00	SF	0.26 221	\$43.50 CN-IRON	11.31 \$9,614	6.41 \$5,449	30.75 \$26,138	0 \$0	0 \$0	48.47 \$41,200
	SST GRATING SUPPORT MEMBERS	STEEL										
		<i>U.C. per TON</i>										
			4.25	TON	20 85	\$43.50 CN-IRON	870 \$3,698	56 \$238	6000 \$25,500	0 \$0	0 \$0	6926 \$29,436
	BASIN SST LINER	STEEL										
		<i>U.C. per SF</i>										
			1,335.00	SF	2 2,670	\$43.62 E4	87.24 \$116,465	5.537 \$7,393	21 \$28,035	0 \$0	0 \$0	113.777 \$151,893
Subtotal							\$129,776	\$13,079	\$79,673	\$0	\$0	\$222,528
Sales Tax							\$0	\$0	\$4,780	\$0	\$0	\$4,780
INEEUSubcontractor Overheads							\$54,419	\$5,484	\$35,414	\$0	\$0	\$95,317
Subtotal Estimate												\$322,626
Escalation							\$24,609	\$2,480	\$16,014	\$0	\$0	\$43,103
Contingency							\$102,363	\$10,316	\$86,614	\$0	\$0	\$179,293
---Total 4.2.05.02 WASH BAY METALS					2,976		\$311,167	\$31,360	\$202,494	\$0	\$0	\$545,021

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D. Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.05.03 CLEAN TRANSFER AIRLOCK METALS												
	STEEL	<i>U.C. per SF</i>			2	\$43.62	87.24	5.537	21	0	0	113.777
	STAINLESS FLOOR LINER		730.00	SF	1,460	E4	\$63,685	\$4,042	\$15,330	\$0	\$0	\$83,058
Subtotal							\$63,685	\$4,042	\$15,330	\$0	\$0	583,058
Sales Tax							\$0	\$0	\$920	\$0	\$0	\$920
INEEUSubcontractorOverheads							\$26,705	\$1,695	\$6,814	\$0	\$0	\$35,214
Subtotal Estimate												\$119,192
Escalation							\$12,076	\$767	\$3,081	\$0	\$0	\$15,924
Contingency							\$50,233	\$3,188	\$12,817	\$0	50	\$66,238
— Total 4.2.05.03 CLEAN TRANSFER AIRLOCK METALS					1,460		\$152,699	\$9,692	\$38,962	\$0	\$0	\$201,354
4.2.05.04 MAIN SUPPORT BUILDING METALS												
	STEEL	<i>U.C. per SF</i>			2	\$43.62	87.24	5.538	21	0	0	113.778
	GLOVEBOX STAINLESS FLOOR LINER		1,400.00	SF	2,800	E4	\$122,136	\$7,753	\$29,400	\$0	\$0	\$159,289
	STEEL	<i>U.C. per TON</i>			10.2	\$42.71	435.676	241.57	1668	0	0	2345.246
	PARTION WALL SUPPORT		60.00	TON	612	STEEL1	\$26,141	\$14,494	\$100,080	\$0	\$0	\$140,715
Memo: Allow 3.67 lbs/sf of wall area for support steel. Assume necessary due to 24' height of walls.												
	STEEL	<i>U.C. per EA</i>			9	\$42.71	384.42	213.15	770	0	0	1367.57
	STAIRS/LANDINGS OVER RAIL FOUNDATION		6.00	EA	54	STEEL1	\$2,307	\$1,279	\$4,620	\$0	\$0	\$8,205
Subtotal							\$150,583	\$23,526	\$134,100	\$0	\$0	\$308,209
Sales Tax							\$0	\$0	\$8,046	\$0	\$0	\$8,046
INEEUSubcontractorOverheads							\$63,144	\$9,865	\$59,606	\$0	\$0	\$132,615
Subtotal Estimate												\$448,870
Escalation							\$28,554	\$4,461	\$26,954	\$0	\$0	\$59,969
Contingency							\$118,775	\$18,556	\$112,120	\$0	\$0	\$249,451
— Total 4.2.05.04 MAIN SUPPORT BUILDING METALS					3,466		\$361,056	\$56,408	\$340,826	\$0	\$0	\$758,290

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.05.05 HVAC ROOM METALS												
	STEEL	<i>U.C. per SF</i>			<i>2</i>	<i>\$43.62</i>	<i>87.24</i>	<i>5.538</i>	<i>21</i>	<i>0</i>	<i>0</i>	<i>113.778</i>
	STAINLESS FLOOR LINER		6,500.00	SF	13,000	E4	\$567,060	\$35,994	\$136,500	\$0	\$0	\$739,554
	STEEL	<i>U.C. per LBS</i>			<i>0.013</i>	<i>\$43.62</i>	<i>0.545</i>	<i>0.035</i>	<i>3</i>	<i>0</i>	<i>0</i>	<i>3.58</i>
	HEPA FILTER PLATFORMS		4,350.00	LBS	54	E4	\$2,372	\$151	\$13,050	\$0	\$0	\$15,572
<hr/>												
	Subtotal						\$569,432	\$36,144	\$149,550	\$0	\$0	\$755,126
	Sales Tax						\$0	\$0	\$8,973	\$0	\$0	\$8,973
	INEEUSubcontractorOverheads	41.93%					\$238,780	\$15,156	\$66,473	\$0	\$0	\$320,410
<hr/>												
	Subtotal Estimate											\$1,084,509
	Escalation						\$107,977	\$6,854	\$30,060	\$0	\$0	\$144,890
	Contingency						\$449,148	\$28,509	\$125,038	\$0	\$0	\$602,695
<hr/>												
-- Total 4.2.05.05 HVAC ROOM METALS					13,054		\$1,365,337	\$86,664	\$380,094	\$0	\$0	\$1,832,095

4.2.05.06 PERSONNELAIRLOCK METALS

	STEEL	<i>U.C. per SF</i>			<i>2</i>	<i>\$43.62</i>	<i>87.24</i>	<i>5.538</i>	<i>21</i>	<i>0</i>	<i>0</i>	<i>113.778</i>
	STAINLESS FLOOR LINER		850.00	SF	1,700	E4	\$74,154	\$4,707	\$17,850	\$0	\$0	\$96,711
<hr/>												
	Subtotal						\$74,154	\$4,707	\$17,850	\$0	\$0	\$96,711
	Sales Tax						\$0	\$0	\$1,071	\$0	\$0	\$1,071
	INEEUSubcontractorOverheads	41.93%					\$31,095	\$1,974	\$7,934	\$0	\$0	\$41,003
<hr/>												
	Subtotal Estimate											\$138,785
	Escalation						\$14,061	\$893	\$3,588	\$0	\$0	\$18,542
	Contingency						\$58,490	\$3,713	\$14,924	\$0	\$0	\$77,127
<hr/>												
--Total 4.2.05.06 PERSONNELAIRLOCK METALS					1,700		\$177,800	\$11,286	\$45,367	\$0	\$0	\$234,453

4.2.05.07 CHARACTERIZATIONAIRLOCK METALS

	STEEL	<i>U.C. per SF</i>			<i>2</i>	<i>\$43.62</i>	<i>87.24</i>	<i>5.538</i>	<i>21</i>	<i>0</i>	<i>0</i>	<i>113.778</i>
	STAINLESS FLOOR LINER		4,200.00	SF	8,400	E4	\$366,408	\$23,258	\$88,200	\$0	\$0	\$477,866

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Mrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Eaumbent</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.05.07 CHARACTERIZATIONAIRLOCK METALS												
	Subtotal						\$366,408	\$23,258	\$88,200	\$0	\$0	\$477,866
	Sales Tax						\$0	\$0	\$5,292	\$0	\$0	\$5,292
	INEEUSubcontractorOverheads	41.93%					\$153,646	\$9,753	\$39,204	\$0	\$0	\$202,602
	Subtotal Estimate											\$685,760
	Escalation						\$69,479	\$4,410	\$17,728	\$0	\$0	\$91,618
	Contingency						\$289,010	\$18,345	\$73,743	\$0	\$0	\$381,098
--Total 4.2.05.07 CHARACTERIZATIONAIRLOCK METALS				8,400			\$878,543	\$55,765	\$224,167	\$0	\$0	\$1,158,476

4.2.08.01 RFS DOORS& WINDOWS

DOORS	GEN	U.C. per EA	98.00	EA	5.4 529	\$35.81 CN-CARP	193.374 \$18,951	0 \$0	1314 \$128,772	0 \$0	0 \$0	1507.374 \$147,723
	Subtotal						\$18,951	\$0	\$128,772	\$0	\$0	\$147,723
	Sales Tax						\$0	\$0	\$7,726	\$0	\$0	\$7,726
	INEEUSubcontractorOverheads	29.03%					\$5,501	\$0	\$39,625	\$0	\$0	\$45,127
	Subtotal Estimate											\$200,576
	Escalation						\$3,267	\$0	\$23,530	\$0	\$0	\$26,797
	Contingency						\$13,590	\$0	\$97,888	\$0	\$0	\$111,478
--Total 4.2.08.01RFS DOORS & WINDOWS				529			\$41,309	\$0	\$297,541	\$0	\$0	\$338,850

4.2.08.04 MAIN SUPPORT BLDG. DOORS& WINDOWS

SPECIAL SINGLE DOORS	GEN	U.C. per EA	8.00	EA	0		0 \$0	0 \$0	0 \$0	9000 \$72,000	0 \$0	9000 \$72,000
Memo: Special balancingdoors to allow operation with negative pressure on one side.												

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.08.04 MAIN SUPPORT BLDG. DOORS & WINDOWS												
	GEN	U.C. per EA					0	0	0	13000	0	13000
	SPECIAL DOUBLE DOORS		13.00	EA	0		\$0	\$0	\$0	\$169,000	\$0	\$169,000
Memo: Special balancing doors to allow operation with negative pressure on one side.												
Subtotal							\$0	\$0	\$0	\$241,000	\$0	\$241,000
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads							\$0	\$0	\$0	\$69,962	\$0	\$69,962
Subtotal Estimate												\$310,962
Escalation							\$0	\$0	\$0	\$41,545	\$0	\$41,545
Contingency							\$0	\$0	\$0	\$172,829	\$0	\$172,829
--Total 4.2.08.04 MAIN SUPPORT BLDG. DOORS & WINDOWS					0		\$0	\$0	\$0	\$525,336	\$0	\$525,336

4.2.08.10 SPECIALTY DOORS

Memo: Costs for the specialty airlock doors are based on vendor contact provided by the BBWI engineering group.

	15' X 15' AIRLOCK CLEAN TRANSFER DOORS	U.C. per SET	2.00	SET	0		0	0	0	100000	0	100000
							\$0	\$0	\$0	\$200,000	\$0	\$200,000
	15' X 15' WASH BAY DOORS	U.C. per SET	2.00	SET	0		0	0	0	100000	0	100000
							\$0	\$0	\$0	\$200,000	\$0	\$200,000
	15' X 15' MAINTENTANCE GLOVE BOX DOORS	U.C. per SET	1.00	SET	0		0	0	0	100000	0	100000
							\$0	\$0	\$0	\$100,000	\$0	\$100,000
Subtotal							\$0	\$0	\$0	\$500,000	\$0	\$500,000
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$500,000
Escalation							\$0	\$0	\$0	\$66,800	\$0	\$66,800
Contingency							\$0	\$0	\$0	\$277,894	\$0	\$277,894
--Total 4.2.08.10 SPECIALTY DOORS					0		\$0	\$0	\$0	\$844,694	\$0	\$844,694

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.09.04 MAIN SUPPORT BUILDING FINISHES												
092601005200	GEN	U.C. per S.F.			0.063	\$37.96	2.409	0	0.81	0	0	3.219
	Ptn wl,5/8",gyp drwl,taped bs,wtr res,met		32,328.00	S.F.	2,051	CARP	\$77,864	\$0	\$26,186	\$0	\$0	\$104,050
	std,NLB,25Ga,16"oc,3-5/8"w											
099109200840	PAINT	U.C. per S.F.			0.014	\$33.19	0.448	0	0.09	0	0	0.538
	Walls&cigs,conc,dry wl or plas,oil base,pnt 2		64,656.00	S.F.	873	PORD	\$28,970	\$0	\$5,819	\$0	\$0	\$34,789
	coats,sm fin,roller											
Subtotal							\$108,834	\$0	\$32,005	\$0	\$0	9138,839
Sales Tax							\$0	\$0	\$1,920	\$0	\$0	\$1,920
INEEUSubcontractorOverheads							\$34,752	\$0	\$10,644	\$0	\$0	\$45,396
Subtotal Estimate												\$186,155
Escalation							\$18,916	\$0	\$5,954	\$0	\$0	\$24,870
Contingency							\$78,686	\$0	\$24,769	\$0	\$0	\$103,455
--Total 4.2.09.04 MAIN SUPPORT BUILDING FINISHES					2,924		\$239,188	\$0	\$75,293	\$0	\$0	\$314,481

4.2.09.10 STRIPPABLE COATINGS

		U.C. perSSF				0	0	0	3.5	0	3.5
STRIPPABLE COATINGS- RETRIEVAL FACILITY STRUCTURE	120,400.00	SSF	0			\$0	\$0	\$0	\$421,400	\$0	\$421,400
		U.C. perSSF				0	0	0	3.5	0	3.5
STRIPPABLE COATINGS- CLEAN AIRLOCK TRANSFER STRUCTURE	3,611.00	SSF	0			\$0	\$0	\$0	\$12,639	\$0	\$12,639
		U.C. perSSF				0	0	0	3.5	0	3.5
STRIPPABLE COATINGS- HVAC ROOM STRUCTURE (@ 50% OF 22,509.00 HVAC ROOM)		SSF	0			\$0	\$0	\$0	\$78,782	\$0	\$78,782
		U.C. perSSF				0	0	0	3.5	0	3.5
STRIPPABLE COATINGS- PERSONNEL AIRLOCK STRUCTURE	4,066.00	SSF	0			\$0	\$0	\$0	\$14,231	\$0	\$14,231
		U.C. perSSF				0	0	0	3.5	0	3.5
STRIPPABLE COATINGS- MAINTENANCE BAY GLOVE BOX STRUCTURE	5,215.00	SSF	0			\$0	\$0	\$0	\$18,253	\$0	\$18,253

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.09.10 STRIPPABLE COATINGS												
	STRIPPABLE COATINGS-AIRLOCK TO CHARACTERIZATION STRUCTURE		15,240.00	SSF	0		\$0	\$0	\$0	\$53,340	\$0	\$53,340
	Subtotal						\$0	\$0	\$0	\$598,644	\$0	\$598,644
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEU Subcontractor Overheads	0.00%					\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate											\$598,644
	Escalation						\$0	\$0	\$0	\$79,979	\$0	\$79,979
	Contingency						\$0	\$0	\$0	\$332,693	\$0	\$332,693
--Total 4.2.09.10 STRIPPABLE COATINGS					0		\$0	\$0	\$0	\$1,011,315	\$0	\$1,011,315

4.2.11.01 WASH BAY EQUIPMENT

111791501410	PIPE	U.C. per Ea.			20	\$39.33	786.6	0	0	0	0	786.6
	Waste handling, for hazardous waste, 55 gal drum packer W/HEPA filter		1.00	Ea.	20	CN-PIPE	\$707	\$0	\$0	\$0	\$0	\$787
Memo: For load out of Wash Bay filter solids.												
	PIPE	U.C. per EA			20	\$39.33	786.6	0	0	0	0	786.6
	WASH BAY FILTER FEED PUMP		2.00	EA	40	CN-PIPE	\$1,573	\$0	\$0	\$0	\$0	\$1,573
Memo: Taken from estimate #2646 SBW Treatment - NGLW CslX Study. Actual equipment requirements are undefined at this point in the design development. Used the information from estimate #2646 as an allowance.												

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>EquipDment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.11.01 WASH BAY EQUIPMENT</u>												
	PIPE				80	\$39.33	3146.4	0	0	0	0	3146.4
	WASH BAY FILTER		2.00	EA	160	CN-PIPE	\$6,293	\$0	\$0	\$0	\$0	\$6,293
Memo: Taken from estimate #2646 SBW Treatment - NGLW CslX Study. Actual equipment requirements are undefined at this point in the design development. Used the information from estimate #2646 as an allowance.												
	Subtotal						\$8,653	\$0	\$0	\$0	\$0	\$8,653
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEL/Subcontractor Overheads	48.10%					\$4,162	\$0	\$0	\$0	\$0	\$4,162
	Subtotal Estimate											\$12,815
	Escalation						\$1,712	\$0	\$0	\$0	\$0	\$1,712
	Contingency						\$7,122	\$0	\$0	\$0	\$0	\$7,122
---Total	4.2.11.01 WASH BAY EQUIPMENT				220		\$21,648	\$0	\$0	\$0	\$0	\$21,648

4.2.13.01 FACILITY MOCK-UP

	MOCK-UP COSTS FOR STAGE III RETRIEVAL		1.00	LS	0		\$0	\$0	\$0	\$2,606,000	\$0	\$2,606,000
Memo: Mock-up costs are based on the Stage III teams input. It was decided by the team lead to use the GEM projects mock-up costs times two. Based on the current cost to date data sheet provided by the GEM PCE, this information is available in estimating back-up file. The cost for the GEM project mock-up was \$1,303,388 (rounded to \$1,303,000).												
	Subtotal						\$0	\$0	\$0	\$2,606,000	\$0	\$2,606,000
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEL/Subcontractor Overheads	0.00%					\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate											\$2,606,000
	Escalation						\$0	\$0	\$0	\$348,162	\$0	\$348,162
	Contingency						\$0	\$0	\$0	\$1,448,259	\$0	\$1,448,259
--Total	4.2.13.01 FACILITY MOCK-UP				0		\$0	\$0	\$0	\$4,402,421	\$0	\$4,402,421

4.2.13.02.01 ERECT FABRIC STRUCTURES

Memo: Unit costs are based on the GEM project square footages, this unit costs also include equipment for structure erection, anchoring, door installation and labor.

	ERECT RFS FABRIC COVERING ONLY		127,300.00	SF	0		\$0	\$0	\$1,400,300	\$801,990	\$0	\$2,202,290
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DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.13.02.01 ERECT FABRIC STRUCTURES												
<i>Memo: Unit costs are based on the GEM project square footages, this unit costs also include equipment for structure erection, anchoring, door installation and labor.</i>												
		<i>U.C. per SF</i>										
	ERECT-MAINSUPPORT BUILDING- FRAME, FABRIC, & DOORS		31,200.00	SF	0		\$0		\$826,800	\$393,120	\$0	\$1,219,920
		<i>U.C. per SF</i>										
	ERECT-AIRLOCK CHARACTERIZATIONSTRUCTURE- FRAME, FABRIC		4,200.00	SF	0		\$0		\$126,000	\$52,920	\$0	\$178,920
Subtotal							\$0	\$0	\$2,353,100	\$1,248,030	\$0	\$3,601,130
Sales Tax							\$0	\$0	\$141,186	\$0	\$0	\$141,186
INEEUSubcontractorOverheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$3,742,316
Escalation							\$0	\$0	\$333,237	\$166,737	\$0	\$499,973
Contingency							\$0	\$0	\$1,386,175	\$693,581	\$0	\$2,079,756
— Total 4.2.13.02.01 ERECT FABRIC STRUCTURES					0		\$0	\$0	\$4,213,698	\$2,108,347	\$0	\$6,322,046

4.2.13.02.02 ERECT LINER PANELS

Memo: Costs are based on a surface per square foot from the GEM facility. The structure is fabricated from stainless steel sheets and carbon steel frames. These panels are to be bolted together to form a radiological containment area. This is the same concept as the GEM project, with the exception that the panels will be supported by the WES structure. This cost per surface SF includes windows for viewing and lighting. This unit cost also includes sealing and pressure testing of the structure.

		<i>U.C. per SSF</i>										
	ERECT-RCS RETRIEVAL STRUCTURE		120,400.00	SSF	0		\$0		\$0	\$4,677,540	\$0	\$4,677,540
		<i>U.C. per SSF</i>										
	ERECT-RCS WASH BAY STRUCTURE		4,066.00	SSF	0		\$0		\$0	\$157,964	\$0	\$157,964
		<i>U.C. per SSF</i>										
	ERECT-RCS CLEAN AIRLOCK TRANSFER STRUCTURE		3,611.00	SSF	0		\$0		\$0	\$140,287	\$0	\$140,287
		<i>U.C. per SSF</i>										
	ERECT-RCS HVAC ROOM STRUCTURE (@ 50% OF HVAC ROOM)		2,509.00	SSF	0		\$0		\$0	\$874,475	\$0	\$874,475
		<i>U.C. per SSF</i>										
	ERECT-RCS PERSONNEL AIRLOCK STRUCTURE		4,066.00	SSF	0		\$0		\$0	\$157,964	\$0	\$157,964

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.13.02.02 ERECT LINER PANELS</u>												
Memo: Costs are based on a surface per square foot from the GEM facility. The structure is fabricated from stainless steel sheets and carbon steel frames. These panels are to be bolted together to form a radiological containment area. This is the same concept as the GEM project, with the exception that the panels will be supported by the WES structure. This cost per surface \$F includes windows for viewing and lighting. This unit cost also includes sealing and pressure testing of the structure.												
	ERECT-RCS MAINTENANCE BAY GLOVE BOX STRUCTURE	U.C. per SSF	5,215.00	SSF	0		0	0	0	38.85	0	38.85
							\$0	\$0	\$0	\$202,603	\$0	\$202,603
	ERECT-RCS AIRLOCK TO CHARACTERIZATION STRUCTURE	U.C. per SSF	15,240.00	SSF	0		0	0	0	38.85	0	38.85
							\$0	\$0	\$0	\$592,074	\$0	\$592,074
Subtotal							\$0	\$0	\$0	\$6,802,907	\$0	\$6,802,907
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEL/Subcontractor Overheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$6,802,907
Escalation							\$0	\$0	\$0	\$908,868	\$0	\$908,868
Contingency							\$0	\$0	\$0	\$3,780,650	\$0	\$3,780,650
---Total 4.2.13.02.02 ERECT LINER PANELS					0		\$0	\$0	\$0	\$11,492,425	\$0	\$11,492,425

4.2.14.04 MAIN SUPPORT BLDG. CONVEYING SYSTEMS

	STEEL	U.C. per LS	120	\$42.71	5125.6	2842	0	0	0	7967.6
	MAINT. BAY GLOVEBOX CRANE INSTALLATION	1.00 LS	120	STEEL1	\$5,126	\$2,842	\$0	\$0	\$0	\$7,968
Memo: Based on Richards. Added 50% to manhours for block #5 of the Nine Block Matrix.										
Subtotal					\$5,126	\$2,842	\$0	\$0	\$0	\$7,968
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads					\$2,149	\$1,192	\$0	\$0	\$0	\$3,341
Subtotal Estimate										\$11,309
Escalation					\$972	\$539	\$0	\$0	\$0	\$1,511
Contingency					\$4,043	\$2,242	\$0	\$0	\$0	\$6,285
— Total 4.2.14.04 MAIN SUPPORT BLDG. CONVEYING SYSTEMS			120		\$12,290	\$6,815	\$0	\$0	\$0	\$19,105

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.15.01.01 HVAC * DUCTWORK												
	HVAC		<i>U.C. per LBS</i>		<i>0.2</i>	<i>\$36.82</i>	<i>7.364</i>	<i>0.3</i>	<i>2</i>	<i>0</i>	<i>0</i>	<i>9.664</i>
	STAINLESS STEEL DUCTWORK		338,230.00	LBS	67,646	CN-SHEE	\$2,490,726	\$101,469	\$676,460	\$0	\$0	\$3,268,655
	HVAC		<i>U.C. per LBS</i>		<i>0.08</i>	<i>\$36.82</i>	<i>2.946</i>	<i>0.3</i>	<i>0.75</i>	<i>0</i>	<i>0</i>	<i>3.996</i>
	GALVANIZED STEEL DUCTWORK		129,380.00	LBS	10,350	CN-SHEE	\$381,102	\$38,814	\$97,035	\$0	\$0	\$516,951
<hr/>												
	Subtotal						\$2,871,827	\$140,283	\$773,495	\$0	\$0	\$3,785,605
	Sales Tax						\$0	\$0	\$46,410	\$0	\$0	\$46,410
	INEEUSubcontractorOverheads		45.64%				\$1,310,576	\$64,019	\$374,168	\$0	\$0	\$1,748,763
<hr/>												
	Subtotal Estimate											\$5,580,778
	Escalation						\$558,769	\$27,295	\$159,528	\$0	\$0	\$745,592
	Contingency						\$2,324,357	\$113,540	\$663,602	\$0	\$0	\$3,101,499
<hr/>												
— Total	4.2.15.01.01 HVAC * DUCTWORK				77,996		\$7,065,529	\$345,137	\$2,017,203	\$0	\$0	\$9,427,869

4.2.15.01.02 EXHAUST STACK

		<i>U.C. per LBS</i>				<i>0</i>	<i>0</i>	<i>0</i>	<i>3.94</i>	<i>0</i>	<i>3.94</i>
	EXHAUST STACK 40" X 65 FT HIGH (C.S.) INCLUDING	41,393.00	LBS		0	\$0	\$0	\$0	\$163,088	\$0	\$163,088
	BASE										

Memo: Costs are based on the exhaust stack built and installed for the GEM project, but sized accordingly to support this Stage III project. Assume the stack base to be 105" in dia. and a 40" dia for the main stack section x 65 ft high, all fabricated from carbon steel materials. Estimated weight including base to be around 41,393 lbs.

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.15.01.02 EXHAUST STACK												
	INSTALLATION OF EXHAUST STACK	<i>U.C. per LBS</i>	41,393.00	LBS	0		\$0	\$0	\$0	23	0	2.3
	Memo: Stack installation costs are based on the GEM project, and increased accordingly to the new stack ROM design dimensions. Estimated weight, including base 41,393 lbs											
	Subtotal						\$0	\$0	\$0	\$258,292	\$0	\$258,292
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEUSubcontractorOverheads	0.00%					\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate											\$258,292
	Escalation						\$0	\$0	\$0	\$34,508	\$0	\$34,508
	Contingency						\$0	\$0	\$0	\$143,545	\$0	\$143,545
--Total 4.2.15.01.02 EXHAUST STACK					0		\$0	\$0	\$0	\$436,345	\$0	\$436,345

4.2.15.01.03 EMISSIONS NOC MONITORING

Memo: **Based on the GEM project design and cost. Assume the GEM project system will be sufficient, not cost adjustment needed for larger stack.**

	EXHAUST STACK MONITORING EQUIPMENT	<i>U.C. per EA</i>	1.00	EA	0		\$0	\$0	\$160,000	0	0	160,000
	INSTALLATION OF MONITORING EQUIPMENT	<i>U.C. per LS</i>	1.00	LS	0		\$0	\$0	\$0	9,000	0	9,000
	VOC MONITORING EQUIPMENT	<i>U.C. per LS</i>	1.00	LS	0		\$0	\$0	\$0	100,000	0	100,000
	Memo: Cost are based on an allowance provided by Ryan McMurtrey, Ryan has experience in this type of system on other projects of this nature.											
	Subtotal						\$0	\$0	\$160,000	\$109,000	\$0	\$269,000
	Sales Tax						\$0	\$0	\$9,600	\$0	\$0	\$9,600
	INEEUSubcontractorOverheads	0.00%					\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate											\$278,600
	Escalation						\$0	\$0	\$22,659	\$14,562	\$0	\$37,221
	Contingency						\$0	\$0	\$94,255	\$60,576	\$0	\$154,831
--Total 4.2.15.01.03 EMISSIONS NOC MONITORING					0		\$0	\$0	\$286,513	\$184,139	\$0	\$470,652

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D. Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.15.01.04	HVAC - EQUIPMENT											
<i>Memo: Costs for the equipment are included in the procurement WBS. These details only include installation labor.</i>												
	PIPE	U.C. per EA			100	\$36.82	3682	1500	0	0	0	5182
	INSTALL-MISTELIMINATOR		1.00	EA	100	CN-SHEE	\$3,682	\$1,500	\$0	\$0	\$0	\$5,182
	PIPE	U.C. per EA			130	\$36.82	4786.6	1500	0	0	0	6286.6
	INSTALL-DUST COLLECTOR (55,000 CFM)		3.00	EA	390	CN-SHEE	\$14,360	\$4,500	\$0	\$0	\$0	\$18,860
	PIPE	U.C. per EA			150	\$36.82	5523	1000	0	0	0	6523
	INSTALL-BLOWER 300 HP (110,000 CFM)		2.00	EA	300	CN-SHEE	\$11,046	\$2,000	\$0	\$0	\$0	\$13,046
	PIPE	U.C. per EA			100	\$36.82	3682	1000	0	0	0	4682
	INSTALL-BLOWER 150 HP (37,000 CFM)		2.00	EA	200	CN-SHEE	\$7,364	\$2,000	\$0	\$0	\$0	\$9,364
	PIPE	U.C. per EA			77	\$36.82	2835.14	0	0	0	0	2835.14
	INSTALL-VFD 150 HP FOR FAN MOTORS		2.00	EA	154	CN-SHEE	\$5,670	\$0	\$0	\$0	\$0	\$5,670
	PIPE	U.C. per EA			85	\$36.82	3129.7	0	0	0	0	3129.7
	INSTALL-VFD 300 HP FOR FAN MOTORS		2.00	EA	170	CN-SHEE	\$6,259	\$0	\$0	\$0	\$0	\$6,259
	PIPE	U.C. per EA			6	\$36.82	220.92	0	0	0	0	220.92
	INSTALL-FIT TRANSMITTERS		4.00	EA	24	CN-SHEE	\$884	\$0	\$0	\$0	\$0	\$884
	PIPE	U.C. per EA			80	\$36.82	2945.6	1000	0	0	0	3945.6
	INSTALL-RFS PENTHOUSE (37,000 CFM)		1.00	EA	80	CN-SHEE	\$2,946	\$1,000	\$0	\$0	\$0	\$3,946
	PIPE	U.C. per EA			120	\$36.82	4418.4	1500	0	0	0	5918.4
	INSTALL-HEPA HOUSINGS 3H X 5W		2.00	EA	240	CN-SHEE	\$8,837	\$3,000	\$0	\$0	\$0	\$11,837
	PIPE	U.C. per EA			160	\$36.82	5891.2	1500	0	0	0	7391.2
	INSTALL-HEPA HOUSINGS 4H X 6W		2.00	EA	320	CN-SHEE	\$11,782	\$3,000	\$0	\$0	\$0	\$14,702
	PIPE	U.C. per EA			140	\$36.82	5154.8	1500	0	0	0	6654.8
	INSTALL-HEPA HOUSINGS 3H X 6W		1.00	EA	140	CN-SHEE	\$5,155	\$1,500	\$0	\$0	\$0	\$6,655
	PIPE	U.C. per EA			12	\$36.82	441.84	25	0	0	0	466.84
	INSTALL-HEPA HOUSINGS DON/DOFT AREAS		4.00	EA	48	CN-SHEE	\$1,767	\$100	\$0	\$0	\$0	\$1,867

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.15.01.04HVAC - EQUIPMENT												
Memo: Costs for the equipment are included in the procurement WBS. These details only include installation labor.												
	PIPE	U.C. per EA			6	\$36.82	220.92	0	0	0	0	220.92
	INSTALL-PLC CONTROL UNITS		2.00	EA	12	CN-SHEE	\$442	\$0	\$0	\$0	\$0	\$442
	PIPE	U.C. per EA			120	\$36.82	4418.4	500	0	0	0	4918.4
	INSTALL-AIR COMPRESSOR (25HP)		1.00	EA	120	CN-SHEE	\$4,418	\$500	\$0	\$0	\$0	\$4,918
	PIPE	U.C. per EA			60	\$36.82	2209.2	100	0	0	0	2309.2
	INSTALL-DESSICANT DRYER/FILTER		1.00	EA	60	CN-SHEE	\$2,209	\$100	\$0	\$0	\$0	\$2,309
	PIPE	U.C. per EA			40	\$36.82	1472.8	50	0	0	0	1522.8
	INSTALL-72 DIA. DAMPERS (LEAK PROOF)		10.00	EA	400	CN-SHEE	\$14,720	\$500	\$0	\$0	\$0	\$15,228
<hr/>												
	Subtotal						\$101,550	\$19,700	\$0	\$0	\$0	\$121,250
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEL/Subcontractor Overheads	48.10%					\$48,849	\$9,476	\$0	\$0	\$0	\$58,326
<hr/>												
	Subtotal Estimate						\$20,093	\$3,898	\$0	\$0	\$0	\$179,575
	Escalation						\$83,584	\$16,215	\$0	\$0	\$0	\$23,991
	Contingency								\$0	\$0	\$0	\$99,798
<hr/>												
--Total 4.2.15.01.04HVAC - EQUIPMENT					2,758		\$254,076	\$49,289	\$0	\$0	\$0	5303,365

4.2.15.01.05CHILLER PIPING & EQUIPMENT

Memo: Costs for the equipment are included in the procurement WBS. These details only include installation labor with the exception of piping materials and insulation.

	PIPE	U.C. per EA			100	\$39.33	3933	0	0	0	0	3933
	INSTALL-150 TON PACKAGED CHILLER		1.00	EA	100	CN-PIPE	\$3,933	\$0	\$0	\$0	\$0	\$3,933
	PIPE	U.C. per EA			20	\$39.33	786.6	0	0	0	0	786.6
	INSTALL-250 GALLON WATER TANK		1.00	EA	20	CN-PIPE	\$707	\$0	\$0	\$0	\$0	\$707
	PIPE	U.C. per EA			120	\$39.33	4719.6	0	0	0	0	4719.6
	INSTALL-BOILER/WATER HEATER 3,000 MBH		1.00	EA	120	CN-PIPE	\$4,720	\$0	\$0	\$0	\$0	\$4,720
	PIPE	U.C. per EA			32	\$39.33	1258.56	0	0	0	0	1258.56
	INSTALL-5 HP PUMP		3.00	EA	96	CN-PIPE	\$3,776	\$0	\$0	\$0	\$0	\$3,776

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.15.01.05 CHILLER PIPING & EQUIPMENT												
Memo: Costs for the equipment are included in the procurement WBS. These details only include installation labor with the exception of piping materials and insulation.												
	PIPE	<i>U.C. per EA</i>			43	\$39.33	1691.19	0	0	0	0	1691.19
INSTALL-25 HP PUMP			1.00	EA	43	CN-PIPE	\$1,691	\$0	\$0	\$0	\$0	\$1,691
	PIPE	<i>U.C. per EA</i>			19.3	\$39.33	759.07	0	0	0	0	759.07
INSTALL-VFD FOR 5 HP PUMP			1.00	EA	19	CN-PIPE	\$759	\$0	\$0	\$0	\$0	\$759
	PIPE	<i>U.C. per EA</i>			6	\$39.33	235.98	0	0	0	0	235.98
INSTALL-PLC CONTROLS UNITS			1.00	EA	6	CN-PIPE	\$236	\$0	\$0	\$0	\$0	\$236
	PIPE	<i>U.C. per EA</i>			12	\$39.33	471.96	0	0	0	0	471.96
INSTALL-3-WAY CONTROL VALVES			5.00	EA	60	CN-PIPE	\$2,360	\$0	\$0	\$0	\$0	\$2,360
	PIPE	<i>U.C. per EA</i>			8	\$39.33	314.64	0	0	0	0	314.64
INSTALL-MANUAL CONTROLS VALVES			28.00	EA	224	CN-PIPE	\$8,810	\$0	\$0	\$0	\$0	\$8,810
	PIPE	<i>U.C. per LF</i>			1.2	\$39.33	47.196	0	16	0	0	63.196
5 CHILLER PIPING (INCLUDES HANGERS & FITTINGS)			2,000.00	LF	2,400	CN-PIPE	\$94,392	\$0	\$32,000	\$0	\$0	\$126,392
	PIPE	<i>U.C. per LF</i>			0.8	\$39.33	31.464	0	8	0	0	39.464
2" CONDENSATE DRAIN PIPING			500.00	LF	400	CN-PIPE	\$15,732	\$0	\$4,000	\$0	\$0	\$19,732
	PIPE	<i>U.C. per LF</i>			0.7	\$39.33	27.531	0	17	0	0	44.531
5 PIPING INSULATION			2,000.00	LF	1,400	CN-PIPE	\$55,062	\$0	\$34,000	\$0	\$0	\$89,062
	PIPE	<i>U.C. per EA</i>			40	\$39.33	1573.2	0	0	0	0	1573.2
INSTALL-HEATING COIL 300 MBH			2.00	EA	80	CN-PIPE	\$3,146	\$0	\$0	\$0	\$0	\$3,146
	PIPE	<i>U.C. per EA</i>			60	\$39.33	2359.8	0	0	0	0	2359.8
INSTALL-HEATING COIL 420 MBH			1.00	EA	60	CN-PIPE	\$2,360	\$0	\$0	\$0	\$0	\$2,360

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.15.01.05 CHILLER PIPING & EQUIPMENT												
<i>Memo: Costs for the equipment are included in the procurement WBS. These details only include installation labor with the exception of piping materials and insulation.</i>												
	PIPE	U.C. per EA			80	\$39.33	3146.4	0	0	0	0	3146.4
	INSTALL-HEATING COIL 1000 MBH		2.00	EA	160	CN-PIPE	\$6,293	\$0	\$0	\$0	\$0	\$6,293
Subtotal							\$204,056	\$0	\$70,000	\$0	\$0	\$274,056
Sales Tax							\$0	\$0	\$4,200	\$0	\$0	\$4,200
INEEUSubcontractorOverheads							\$98,159	\$0	\$35,693	\$0	\$0	\$133,852
Subtotal Estimate												\$412,108
Escalation							\$40,376	\$0	\$14,682	\$0	\$0	\$55,058
Contingency							\$167,955	\$0	\$61,073	\$0	\$0	\$229,028
—Total 4.2.15.01.05 CHILLER PIPING & EQUIPMENT					5,188		\$510,546	\$0	\$185,648	\$0	\$0	\$696,193

4.2.15.02.01 RPS FIRE SYSTEM CONTROLS

Memo: Costs are based on the GEM Project design, assume the same type system and coverage will be required for this facility.

	RPS FIRE SYSTEM CONTROLS (FACILITY FOOT PRINT)	U.C. per SF	164,400.00	SF	0		0	0	0	3.4	0	3.4
							\$0	\$0	\$0	\$558,960	\$0	\$558,960
Subtotal							\$0	\$0	\$0	\$558,960	\$0	\$558,960
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$558,960
Escalation							\$0	\$0	\$0	\$74,677	\$0	\$74,677
Contingency							\$0	\$0	\$0	\$310,640	\$0	\$310,640
—Total 4.2.15.02.01 RPS FIRE SYSTEM CONTROLS					0		\$0	\$0	\$0	\$944,277	\$0	\$944,277

4.2.15.02.02 RFS DRY PIPE FIRE PROTECTION

Memo: Costs are based on contacting a local fire protection vendor that has provided many hours of time as a consultant for the INEEL. This company has also design and installed many fire Protection systems at the INEEL, as well as the GEM project.

	DRY PIPE FIRE PROTECTION	U.C. per SF	217,000.00	SF	0		0	0	0	3.65	0	3.65
							\$0	\$0	\$0	\$792,050	\$0	\$792,050

Memo: Two dry pipe systems are required. One system will cover the area between the fabric outer structure and the liner, the other system will cover the area within the liner.

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.15.02.02 RFS DRY PIPE FIRE PROTECTION												
<i>Memo: Costs are based on contacting a local fire protection vendor that has provided many hours of time as a consultant for the INEEL. This company has also design and installed many fire protection systems at the INEEL, as well as the GEM project.</i>												
	FEED MAINS	U.C. per LS	2.00	LS	0		0	0	0	8000	0	8000
							\$0	\$0	\$0	\$16,000	\$0	\$16,000
Subtotal							\$0	\$0	\$0	\$808,050	\$0	\$808,050
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEL/Subcontractor Overheads							\$0	\$0	\$0	\$0	\$0	\$0
							0.00%					
Subtotal Estimate							\$0	\$0	\$0	\$107,955	\$0	\$107,955
Escalation							\$0	\$0	\$0	\$449,071	\$0	\$449,071
Continuancv							\$0	\$0	\$0	\$0	\$0	\$0
—Total 4.2.15.02.02 RFS DRY PIPE FIRE PROTECTION					0		\$0	\$0	\$0	\$1,365,077	\$0	\$1,365,077

4.2.15.02.04 RFS EXTRA HAZARD FOAM SYSTEM

Memo: Costs are based on contacting a local fire protection vendor that has provided many hours of time as a consultant for the INEEL. This company has also design and installed many fire protection systems at the INEEL, as well as the GEM project.

	EXTRA HAZARD FOAM SYSTEM (EQUIPMENT ONLY)	U.C. per LS	1.00	LS	0		0	0	0	100000	0	100000
							\$0	\$0	\$0	\$100,000	\$0	\$100,000
	EXTRA HAZARD FOAM PIPING DISTRIBUTION SYSTEM	U.C. per SF	90,000.00	SF	0		0	0	0	4.35	0	4.35
							\$0	\$0	\$0	\$391,500	\$0	\$391,500

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage 111 Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.15.02.04 RFS EXTRA HAZARD FOAM SYSTEM												
<i>Memo: Costs are based on contacting a local fire protection vendor that has provided many hours of time as a consultant for the INEEL. This company has also design and installed many fire protection systems at the INEEL, as well as the GEM project.</i>												
	EXTRA HAZARD FOAM MONITOR NOZZLES	U.C. per EA	10.00	EA	0			0	0	0	10000	10000
								\$0	\$0	\$0	\$100,000	\$100,000
Subtotal								\$0	\$0	\$0	\$591,500	\$591,500
Sales Tax								\$0	\$0	\$0	\$0	\$0
INEEL/Subcontractor Overheads							0.00%	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$591,500
Escalation								\$0	\$0	\$0	\$79,024	\$79,024
Contingency								\$0	\$0	\$0	\$328,724	\$328,724
—Total 4.2.15.02.04 RFS EXTRA HAZARD FOAM SYSTEM					0			\$0	\$0	\$0	\$999,249	\$999,249

4.2.15.02.05 MAIN SUPPORT BUILDING DRY PIPE SYSTEM

Memo: Costs are based on contacting a local fire protection vendor that has provided many hours of time as a consultant for the INEEL. This company has also design and installed many fire protection systems at the INEEL, as well as the GEM project.

	MAIN SUPPORT BUILDING STRUCTURE-DRY PIPE FIRE PROTECTION	U.C. per	31,200.00		0			0	0	0	3.65	3.65
								\$0	\$0	\$0	\$113,880	\$113,880
	MAIN SUPPORT BUILDING- FEED MAINS	U.C. per LS	1.00	LS	0			0	0	0	3000	3000
								\$0	\$0	\$0	\$3,000	\$3,000
Subtotal								\$0	\$0	\$0	\$116,880	\$116,880
Sales Tax								\$0	\$0	\$0	\$0	\$0
INEEL/Subcontractor Overheads							0.00%	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$116,880
Escalation								\$0	\$0	\$0	\$15,615	\$15,615
Contingency								\$0	\$0	\$0	\$64,956	\$64,956
—Total 4.2.15.02.05 MAIN SUPPORT BUILDING DRY PIPE SYSTEM					0			\$0	\$0	\$0	\$197,451	\$197,451

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.15.02.06</u> ADDITIONAL MAIN SUPPORT BUILDING FIRE PROTECTIONSYSTEMS												
Memo: Costs are based on contacting a local fire protection vendor that has provided many hours of time as a consultant for the INEEL. This company has also design and installed many fire protection systems at the INEEL, as well as the GEM project.												
	MAINTENCE BAY GLOVE BOX AREA-DRY PIPE FIRE PROTECTION	U.C. per SF	1,400.00	SF	0		0 \$0	0 \$0	0 \$0	4.35 \$6,090	0 \$0	4.35 \$6,090
	HVAC ROOM	U.C. per SF	6,500.00	SF	0		0 \$0	0 \$0	0 \$0	4.35 \$28,275	0 \$0	4.35 \$28,275
Memo: HVAC CONFINEMENT AREA, 50% OF HVAC AREA, REQUIRES INDEPENDENT FIRE PROTECTION.												
	WASH BAY FIRE PROTECTION	U.C. per SF	850.00	SF	0		0 \$0	0 \$0	0 \$0	4.35 \$3,698	0 \$0	4.35 \$3,698
	PERSONNELAIRLOCK AREA FIRE PROTECTION	U.C. per SF	850.00	SF	0		0 \$0	0 \$0	0 \$0	4.35 \$3,698	0 \$0	4.35 \$3,698
	CLEAN AIRLOCK AREA FIRE PROTECTION	U.C. per SF	730.00	SF	0		0 \$0	0 \$0	0 \$0	4.35 \$3,176	0 \$0	4.35 \$3,176
Subtotal							\$0	\$0	\$0	\$44,936	\$0	\$44,936
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads							0.00%	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$44,936
Escalation							\$0	\$0	\$0	\$6,003	\$0	\$6,003
Contingency							\$0	\$0	\$0	\$24,973	\$0	\$24,973
—Total					0		\$0	\$0	\$0	\$75,912	\$0	\$75,912
<u>4.2.15.02.06</u> ADDITIONAL MAIN SUPPORT BUILDING FIRE PROTECTIONSYSTEMS												

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.15.02.07AIRLOCK TO CHARACTERIZATIONFIRE PROTECTION												
<i>Memo: Costs are based on contacting a local fire protection vendor that has provided many hours of time as a consultant for the INEEL. This company has also design and installed many fire protection systems at the INEEL, as well as the GEM project.</i>												
	Subtotal						\$0	\$0	\$0	\$30,660	\$0	\$30,660
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEUSubcontractorOverheads	0.00%					\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate											\$30,660
	Escalation						\$0	\$0	\$0	\$4,096	\$0	\$4,096
	Contingency						\$0	\$0	\$0	\$17,039	\$0	\$17,039
---Total	4.2.15.02.07AIRLOCK TO CHARACTERIZATIONFIRE PROTECTION				0		\$0	\$0	\$0	\$51,795	\$0	\$51,795

4.2.15.03PLANT AIR

Memo: Costs are based on the GEM Project design, assume the same type system and coverage will be required for this facility. Equipment cost for the compressor is located in the procurement WBS.

	RFS PLANT AIR DISTRIBUTION SYSTEM	U.C. per SF	127,000.00 SF		0		\$0	\$0	\$0	\$259,080	\$0	\$259,080
							0	0	0	2.04	0	2.04
	MAIN SUPPORT BUILDING (ALL AREAS)	U.C. per SF	31,200.00 SF		0		\$0	\$0	\$0	\$63,648	\$0	\$63,648
							0	0	0	2.04	0	2.04
	Subtotal						\$0	\$0	\$0	\$322,728	\$0	\$322,728
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEUSubcontractorOverheads	0.00%					\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate											\$322,728
	Escalation						\$0	\$0	\$0	\$43,116	\$0	\$43,116
	Contingency						\$0	\$0	\$0	\$179,355	\$0	\$179,355
---Total	4.2.15.03PLANT AIR				0		\$0	\$0	\$0	\$545,199	\$0	\$545,199

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project- Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.15.04 BREATHING AIR												
Memo:	Costs are based on the GEM Project design, assume the same type system and coverage will be required for this facility. No costs for the breathing air compressor have been included, assume provided to the project by the BBWI equipment pool at no cost to this project.											
	BREATHING AIR DISTRIBUTIONS	U.C. per SF	90,000.00	SF	0		0	0	0	5.6	0	5.6
	SYSTEM						\$0	\$0	\$0	\$504,000	\$0	\$504,000
Memo, Assume 50% less piping due to large open area within the RFS.												
	MAINTENANCE BAY GLOVE BOX - BREATHING AIR DISTRIBUTION SYSTEM	U.C. per SF	1,400.00	SF	0		0	0	0	11.2	0	11.2
							\$0	\$0	\$0	\$15,680	\$0	\$15,680
	HVAC ROOM BREATHING AIR DISTRIBUTION SYSTEM	U.C. per SF	6,500.00	SF	0		0	0	0	11.2	0	11.2
							\$0	\$0	\$0	\$72,800	\$0	\$72,800
	PERSONNEL AIRLOCK	U.C. per SF	850.00	SF	0		0	0	0	11.2	0	11.2
							\$0	\$0	\$0	\$9,520	\$0	\$9,520
	CLEAN TRANSFER AIRLOCK	U.C. per SF	730.00	SF	0		0	0	0	11.2	0	11.2
							\$0	\$0	\$0	\$8,176	\$0	\$8,176
	WASH BAY AIRLOCK	U.C. per SF	850.00	SF	0		0	0	0	11.2	0	11.2
							\$0	\$0	\$0	\$9,520	50	\$9,520
Subtotal							\$0	\$0	\$0	\$619,696	\$0	\$619,696
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEU Subcontractor Overheads							0.00%	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$619,696
Escalation							\$0	\$0	\$0	\$82,791	\$0	\$82,791
Contingency							\$0	\$0	\$0	\$344,394	\$0	\$344,394
— Total 4.2.15.04 BREATHING AIR					0		\$0	\$0	\$0	\$1,046,881	\$0	\$1,046,881

4.2.15.05 DUST SUPPRESSION

Memo: Costs are based on the GEM project. Assume this facility will require three complete GEM facility systems. This is based on the area of the dig face in relation to the dig area of the GEM project.

	DUST SUPPRESSION SYSTEM (3 COMPLETE SYSTEM)		3.00	EA	0			0	0	0	92242	0	92242
								\$0	\$0	\$0	\$276,726	\$0	\$276,726

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.15.05 DUST SUPPRESSION</u>												
<i>Memo: Costs are based on the GEM project. Assume this facility will require three complete GEM facility systems. This is based on the area of the dig face in relation to the dig area of the GEM project.</i>												
	Subtotal							\$0	\$0	\$0	\$276,726	\$276,726
	Sales Tax							\$0	\$0	\$0	\$0	\$0
	INEEUSubcontractorOverheads	0.00%						\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate											\$276,726
	Escalation							\$0	\$0	\$36,971	\$0	\$36,971
	Contingency							\$0	\$0	\$153,790	\$0	\$153,790
--Total 4.2.15.05 DUST SUPPRESSION					0			\$0	\$0	\$0	\$467,486	\$467,486

4.2.15.06 MISC. MECHANICAL

		<i>U.C. per EA</i>						0	0	0	8000	0	8000
MAINT. GLOVE BOX GLOVE PORTS-OVALS			25.00	EA	0			\$0	\$0	\$0	\$200,000	\$0	\$200,000
		<i>U.C. per EA</i>						0	0	0	10000	0	10000
MAINT. GLOVE BOX SAMPLE BAG-OUTS			4.00	EA	0			\$0	\$0	\$0	\$40,000	\$0	\$40,000
		<i>U.C. per EA</i>						0	0	0	5000	0	5000
MAINT. GLOVE BOX SAMPLE CANS			4.00	EA	0			\$0	\$0	\$0	\$20,000	\$0	\$20,000
		<i>U.C. per EA</i>						0	0	0	6400	0	6400
MAINT. GLOVE BOX BAG-OUT PORTS			4.00	EA	0			\$0	\$0	\$0	\$25,600	\$0	\$25,600
		<i>U.C. per EA</i>						0	0	0	1500	0	1500
MAINT. GLOVE BOX HOIST LOAD CELL			1.00	EA	0			\$0	\$0	\$0	\$1,500	\$0	\$1,500
		<i>U.C. per EA</i>						0	0	0	2000	0	2000
MAINT. GLOVE BOX PORTABLE DECON VAC			1.00	EA	0			\$0	\$0	\$0	\$2,000	\$0	\$2,000
		<i>U.C. per LS</i>						0	0	0	50000	0	50000
MAINT. GLOVE BOX ALLOWANCE FOR REMOTE MAINTENTANCE TOOLS			1.00	LS	0			\$0	\$0	\$0	\$50,000	\$0	\$50,000

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.15.06 MISC. MECHANICAL												
	PIPE	<i>U.C. per LF</i>			<i>0.182</i>	<i>\$39.33</i>	<i>7.158</i>	<i>0</i>	<i>32.7</i>	<i>0</i>	<i>0</i>	<i>39.858</i>
	WASH BAY PIPING ALLOWANCE		640.00	LF	116	CN-PIPE	\$4,581	\$0	\$20,928	\$0	\$0	\$25,509
	PIPE	<i>U.C. per LF</i>			<i>0.182</i>	<i>\$39.33</i>	<i>7.158</i>	<i>0</i>	<i>32.7</i>	<i>0</i>	<i>0</i>	<i>39.858</i>
	HVAC ROOM MISC. PIPING ALLOWANCE		9,700.00	LF	1,765	CN-PIPE	\$69,433	\$0	\$317,190	\$0	\$0	\$386,623
<hr/>												
	Subtotal						\$74,014	\$0	\$338,118	\$339,100	\$0	\$751,232
	Sales Tax						\$0	\$0	\$20,287	\$0	\$0	\$20,287
	INEEUSubcontractorOverheads	26.96%					\$35,604	\$0	\$172,407	\$0	\$0	\$208,011
<hr/>												
	Subtotal Estimate											\$979,530
	Escalation						\$14,645	\$0	\$70,917	\$45,304	\$0	\$130,865
	Contingency						\$60,920	\$0	\$294,997	\$188,454	\$0	\$544,371
<hr/>												
--Total 4.2.15.06 MISC. MECHANICAL					1,882		\$185,183	\$0	\$896,726	\$572,857	\$0	\$1,654,767

4.2.16.01 GENERAL FACILITIES ELECTRICAL

Memo: Costs are based on the GEM project calculated square footage.

	FACILITY RACEWAYS	<i>U.C. per SF</i>	158,200.00	SF	0		<i>0</i>	<i>0</i>	<i>0</i>	<i>17</i>	<i>0</i>	<i>17</i>
							\$0	\$0	\$0	\$2,689,400	\$0	\$2,689,400
	FACILITY WIRE & CABLE	<i>U.C. per SF</i>	158,200.00	SF	0		<i>0</i>	<i>0</i>	<i>0</i>	<i>6.36</i>	<i>0</i>	<i>6.36</i>
							\$0	\$0	\$0	\$1,006,152	\$0	\$1,006,152
	FACILITY LIGHTING	<i>U.C. per SF</i>	158,200.00	SF	0		<i>0</i>	<i>0</i>	<i>0</i>	<i>8.75</i>	<i>0</i>	<i>8.75</i>
							\$0	\$0	\$0	\$1,384,250	\$0	\$1,384,250

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>421 6.01 GENERAL FACILITIES ELECTRICAL</u>												
Memo: Costs are based on the GEM project calculated square footage.												
	FACILITY MISC. (TELEPHONE, LIGHTNING PROTECTION, ETC.)		158,200.00	SF	0		\$0	\$0	\$0	\$862,190	\$0	\$862,190
	Subtotal						\$0	\$0	\$0	\$5,941,992	\$0	\$5,941,992
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEU Subcontractor Overheads	0.00%					\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate											\$5,941,992
	Escalation						\$0	\$0	\$0	\$793,850	\$0	\$793,850
	Contingency						\$0	\$0	\$0	\$3,302,184	\$0	\$3,302,184
—Total 4.2.16.01 GENERAL FACILITIES ELECTRICAL					0		\$0	\$0	\$0	\$10,038,027	\$0	\$10,038,027

4.2.16.02.01 MAIN FEED CONDUITS AND CONDUCTORS

	500 MCM, 5 kV 3-CONDUCTOR MINING POWER CABLE		400.00	LF	0.1 40	\$35.89 CN-ELEC	3.589 \$1,436	0 \$0	30 \$12,000	0 \$0	0 \$0	33.589 \$13,436
	250 MCM, 5 kV 3-CONDUCTOR MINING POWER CABLE		400.00	LF	0.08 32	\$35.89 CN-ELEC	2.871 \$1,148	0 \$0	19.75 \$7,900	0 \$0	0 \$0	22.621 \$9,048
	500 MCM 5 kV TERMINATION KITS		6.00	EA	4 24	\$35.89 CN-ELEC	143.56 \$861	0 \$0	60 \$360	0 \$0	0 \$0	203.56 \$1,221
	250 MCM 5 kV TERMINATION KITS		6.00	EA	4 24	\$35.89 CN-ELEC	143.56 \$861	0 \$0	45 \$270	0 \$0	0 \$0	188.56 \$1,131
	HI-POT TESTING		6.00	EA	4 24	\$35.89 CN-ELEC	143.56 \$861	0 \$0	0 \$0	0 \$0	0 \$0	143.56 \$861
	500 MCM THHN 600 VOLT COPPER WIRE		3,600.00	LF	0.054 194	\$35.89 CN-ELEC	1.938 \$6,977	0 \$0	0 \$0	0 \$0	0 \$0	1.938 \$6,977
Memo: Assume main switchgear is located within 100 feet of the power transformers.												

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.16.02.01 MAIN FEED CONDUITS AND CONDUCTORS												
	ELEC	<i>U.C. per LF</i>			<i>0.3</i>	<i>\$35.89</i>	<i>10.767</i>					
5	EMT CONDUIT WITH FITTINGS AND SUPPORTS		1,600.00	LF	480	CN-ELEC	\$17,227	\$0	\$0	\$0	\$0	\$17,227
Subtotal							\$29,372	\$0	\$20,530	\$0	\$0	\$49,902
Sales Tax							\$0	\$0	\$1,232	\$0	\$0	\$1,232
INEEU Subcontractor Overheads							\$14,129	\$0	\$10,468	\$0	\$0	\$24,598
Subtotal Estimate												\$75,732
Escalation							\$5,812	\$0	\$4,306	\$0	\$0	\$10,118
Contingency							\$24,175	\$0	\$17,911	\$0	\$0	\$42,087
—Total 4.2.16.02.01 MAIN FEED CONDUITS AND CONDUCTORS					818		\$73,489	\$0	\$54,447	\$0	\$0	\$127,936
4.2.16.02.02 TRANSFORMERS												
	ELEC	<i>U.C. per EA</i>			<i>76</i>	<i>\$35.89</i>	<i>2727.64</i>	<i>1500</i>	<i>16800</i>	<i>0</i>	<i>0</i>	<i>2 1027.64</i>
1000 kVA	4160-480 DIST. TRANSFORMER, S-XFR-1		1.00	EA	76	CN-ELEC	\$2,728	\$1,500	\$16,800	\$0	\$0	\$21,028
Memo: Transformer pricing is based on R. S. Means.												
	ELEC	<i>U.C. per EA</i>			<i>100</i>	<i>\$35.89</i>	<i>3589</i>	<i>1500</i>	<i>25200</i>	<i>0</i>	<i>0</i>	<i>30289</i>
2000 kVA	4160-480 DIST. TRANSFORMER, N-XFR-1		1.00	EA	100	CN-ELEC	\$3,589	\$1,500	\$25,200	\$0	\$0	\$30,289
Memo: Transformer pricing is based on R. S. Means.												
Subtotal							\$6,317	\$3,000	\$42,000	\$0	\$0	\$51,317
Sales Tax							\$0	\$0	\$2,520	\$0	\$0	\$2,520
INEEU Subcontractor Overheads							\$3,039	\$1,443	\$21,416	\$0	\$0	\$25,898
Subtotal Estimate												\$79,734
Escalation							\$1,250	\$594	\$8,809	\$0	\$0	\$10,652
Contingency							\$5,199	\$2,469	\$36,643	\$0	\$0	\$44,311
—Total 4.2.16.02.02 TRANSFORMERS					176		\$15,804	\$7,506	\$111,388	\$0	\$0	\$134,698

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.16.02.03 SITEWORK</u>												
	ELEC	<i>U.C. per EA</i>					0	0	0	10000	0	10000
	ALLOWANCE FOR TRANSFORMER PADS		2.00	EA	0		\$0	\$0	\$0	\$20,000	\$0	\$20,000
<hr/>												
	Subtotal						\$0	\$0	\$0	\$20,000	\$0	\$20,000
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEL Subcontractor Overheads	48.10%					\$0	\$0	\$0	\$9,621	\$0	\$9,621
<hr/>												
	Subtotal Estimate											\$29,621
	Escalation						\$0	\$0	\$0	\$3,957	\$0	\$3,957
	Contingency						\$0	\$0	\$0	\$16,461	\$0	\$16,461
<hr/>												
—Total 4.2.16.02.03 SITEWORK					0		\$0	\$0	\$0	\$50,040	\$0	\$50,040

4.2.16.02.04 SWITCHGEAR

	ELEC	<i>U.C. per EA</i>			120	\$35.89	4306.8	1500	35525	0	0	41331.8
S-MCC-I, 2000 AMP MAIN ,2771408 VOLT			1.00	EA	120	CN-ELEC	\$4,307	\$1,500	\$35,525	\$0	\$0	\$41,332
	ELEC	<i>U.C. per EA</i>			160	\$35.89	5742.4	1500	46525	0	0	53767.4
MCC-I, 4000 AMP MAIN ,2771408 VOLT			1.00	EA	160	CN-ELEC	\$5,742	\$1,500	\$46,525	\$0	\$0	\$53,767
	ELEC	<i>U.C. per EA</i>			16	\$35.89	574.24	0	3375	0	0	3949.24
S-PP-1, 600 AMP 2771480 PANEL			1.00	EA	16	CN-ELEC	\$574	\$0	\$3,375	\$0	\$0	\$3,949
	ELEC	<i>U.C. per EA</i>			8	\$35.89	287.12	0	1690	0	0	1977.12
s-PP-2, 100 AMP 2771480 PANEL			1.00	EA	8	CN-ELEC	\$287	\$0	\$1,690	\$0	\$0	\$1,977
	ELEC	<i>U.C. per EA</i>			16	\$35.89	574.24	0	3375	0	0	3949.24
N-PP-I, 600 AMP 2771480 PANEL			1.00	EA	16	CN-ELEC	\$574	\$0	\$3,375	\$0	\$0	\$3,949
	ELEC	<i>U.C. per EA</i>			16	\$35.89	574.24	0	3375	0	0	3949.24
L-LP-I. 600 AMP 2771480 PANEL			1.00	EA	16	CN-ELEC	\$574	\$0	\$3,375	\$0	\$0	\$3,949
	ELEC	<i>U.C. per EA</i>			8	\$35.89	287.12	0	2450	0	0	2737.12
225 AMP 2771480 LIGHTING, HEAT, AND POWER PANELS			12.00	EA	96	CN-ELEC	\$3,445	\$0	\$29,400	\$0	\$0	\$32,845

DETAIL ITEM REPORT

Project Name: OU 7-70 Staged Interim Action
Stage III Project - Retrieval System Project- Option 2
Project Location: INEEL-RWMC
Estimate Number: 5974-2 Option 2-R

Client: S. L. Austad
Prepared By: S.N. Wasley/R.D. Adams
Estimate Type: Project Support

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.16.02.04 SWITCHGEAR												
	ELEC	U.C. per LS			80	\$35.89	2871.2	0	5000	0	0	7871.2
	ALLOWANCE FOR DISCONNECT SWITCHES		1.00	LS	80	CN-ELEC	\$2,871	\$0	\$5,000	\$0	\$0	\$7,871
<hr/>												
	Subtotal						\$18,376	\$3,000	\$128,265	\$0	\$0	\$149,641
	Sales Tax						\$0	\$0	\$7,696	\$0	\$0	\$7,696
	INEEUSubcontractorOverheads	48.10%					\$8,839	\$1,443	\$65,403	\$0	\$0	\$75,685
<hr/>												
	Subtotal Estimate											\$233,022
	Escalation						\$3,636	\$594	\$26,902	\$0	\$0	\$31,132
	Contingency						\$15,124	\$2,469	\$111,905	\$0	\$0	\$129,499
<hr/>												
--Total	4.2.16.02.04 SWITCHGEAR				512		\$45,976	\$7,506	\$340,171	\$0	\$0	\$393,652

4.2.16.02.05 MISC. CONNECTIONS

	ELEC	U.C. per EA			2	\$35.89	71.78	0	50	0	0	121.78
	5 HP MOTOR CONNECTION		3.00	EA	6	CN-ELEC	\$215	\$0	\$150	\$0	\$0	\$365
	ELEC	U.C. per EA			3	\$35.89	107.67	0	125	0	0	232.67
	25 HP MOTOR CONNECTION		2.00	EA	6	CN-ELEC	\$215	\$0	\$250	\$0	\$0	\$465
	ELEC	U.C. per EA			4	\$35.89	143.56	0	250	0	0	393.56
	50 HP MOTOR CONNECTION		1.00	EA	4	CN-ELEC	\$144	\$0	\$250	\$0	\$0	\$394
	ELEC	U.C. per EA			5	\$35.89	179.45	0	400	0	0	579.45
	150 HP MOTOR CONNECTION		2.00	EA	10	CN-ELEC	\$359	\$0	\$800	\$0	\$0	\$1,159
	ELEC	U.C. Der EA			8	\$35.89	287.12	0	600	0	0	887.12
	300 HP MOTOR CONNECTION		2.00	EA	16	CN-ELEC	\$574	\$0	\$1,200	\$0	\$0	\$1,774

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D. Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>DescriDtion</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Eauiument</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.16.02.05 MISC. CONNECTIONS</u>												
	CHILLER	ELEC			8	\$35.89	287.12	0	200	0	0	487.72
			1.00	EA	8	CN-ELEC	\$287	\$0	\$200	\$0	\$0	\$487
	Subtotal						\$1,795	\$0	\$2,850	\$0	\$0	\$4,645
	Sales Tax						\$0	\$0	\$171	\$0	\$0	\$171
	INEEUSubcontractorOverheads	48.10%					\$863	\$0	\$1,453	\$0	\$0	\$2,316
	Subtotal Estimate											\$7,132
	Escalation						\$355	\$0	\$598	\$0	\$0	\$953
	Contingency						\$1,477	\$0	\$2,486	\$0	\$0	\$3,963
— Total 4.2.16.02.05 MISC. CONNECTIONS					50		\$4,490	\$0	\$7,558	\$0	\$0	\$12,048

4.2.16.02.06 TESTING

	ALLOWANCE FOR TESTING OF SYSTEMS AND EQUIPMENT	ELEC			240	\$35.89	8613.6	0	0	0	0	8613.6
			1.00	LS	240	CN-ELEC	\$8,614	\$0	\$0	\$0	\$0	\$8,614
	Subtotal						\$8,614	\$0	\$0	\$0	\$0	\$8,614
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEUSubcontractorOverheads	48.10%					\$4,143	\$0	\$0	\$0	\$0	\$4,143
	Subtotal Estimate											\$12,757
	Escalation						\$1,704	\$0	\$0	\$0	\$0	\$1,704
	Contingency						\$7,090	\$0	\$0	\$0	\$0	\$7,090
— Total 4.2.16.02.06 TESTING					240		\$21,551	\$0	\$0	\$0	\$0	\$21,551

4.2.16.03 MONITORING AND CONTROLS

Memo: Unit costs are based on the GEM project calculated square footage. This unit cost also included HVAC controls.

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DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
<u>4.2.16.03 MONITORING AND CONTROLS</u>												
Memo: Unit costs are based on the GEM project calculated square footage. This unit cost also included HVAC controls.												
		<i>U.C. per SF</i>										
	MONITORING AND CONTROLS-CABLES (BASED ON THE GEM PROJECT SF)	158,200.00	SF	0			\$0	\$0	\$0	1.5 \$237,300	0 \$0	1.5 \$237,300
Memo: Unit costs were adjusted down by 50% from the GEM project due to the economy of scale.												
		<i>U.C. per SF</i>										
	MONITORING AND CONTROLS-RACEWAYS (BASED ON THE GEM PROJECT SF)	158,200.00	SF	0			\$0	\$0	\$0	1.45 \$229,390	0 \$0	1.45 \$229,390
Memo: Unit costs were adjusted down by 50% from the GEM project due to the economy of scale.												
Subtotal							\$0	\$0	\$0	\$1,400,070	\$0	\$1,400,070
Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
INEEL/Subcontractor Overheads							\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$1,400,070
Escalation							\$0	\$0	\$0	\$187,049	\$0	\$187,049
Contingency							\$0	\$0	\$0	\$778,071	\$0	\$778,071
---Total 4.2.16.03 MONITORING AND CONTROLS					0		\$0	\$0	\$0	\$2,365,190	\$0	\$2,365,190

4.2.16.04 CRITICALITY & RAD MONITORING SYSTEMS INSTALLATION

		<i>U.C. per EA</i>										
	CRITICALITY SYSTEM INSTALLATION	3.00	EA	0			\$0	\$0	\$0	20185 \$60,555	0 \$0	20185 \$60,555
Memo: Based on the GEM project installation costs for criticality equipment.												

DETAIL ITEM REPORT

Project Name: ***OU 7-70 Staged Interim Action
Stage III Project - Retrieval System Project- Option 2***
Project Location: ***INEEL-RWMC***
Estimate Number: ***5974-2 Option 2-R***

Client: **S. L. Austad**
Prepared By: **S.N. Wasley/R.D.Adams**
Estimate Type: **Project Support**

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
4.2.16.04	CRITICALITY & RAD MONITORING SYSTEMS INSTALLATION											
		U.C. per LS					0	0	0	16349	0	16349
	RADIOLOGICAL MONITORING EQUIPMENT INSTALLATION		1.00	LS	0		\$0	\$0	\$0	\$16,349	\$0	\$16,349
	Subtotal						\$0	\$0	\$0	\$76,904	\$0	\$76,904
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEUSubcontractorOverheads	0.00%					\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate											\$76,904
	Escalation						\$0	\$0	\$0	\$10,274	\$0	\$10,274
	Contingency						\$0	\$0	\$0	\$42,738	\$0	\$42,738
--Total	4.2.16.04 CRITICALITY & RAD MONITORING SYSTEMS INSTALLATION				0		\$0	\$0	\$0	\$129,917	\$0	\$129,917

4.2.16.05 CCTV MONITORING SYSTEM

Memo: Costs are based on the GEM project calculated square footage.

						0	0	0	1.36	0	\$215,152
	CCTV MONITORING SYSTEM-INSTALLATION	LABOR	158,200.00	SF	0	\$0	\$0	\$0	\$215,152	\$0	\$215,152
Memo: Unit costs are based on the GEM project. Camera equipment costs are included in the procurement WBS.											
	Subtotal					\$0	\$0	\$0	\$215,152	\$0	\$215,152
	Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
	INEEU Subcontractor Overheads		0.00%			\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate										\$215,152
	Escalation					\$0	\$0	\$0	\$28,744	\$0	\$28,744
	Contingency					\$0	\$0	\$0	\$119,568	\$0	\$119,568
---	Total	4.2.16.05	CCTV MONITORING SYSTEM		0	\$0	\$0	\$0	\$363,464	\$0	\$363,464

4.2.16.06 INTEGRATION CONTROLS SYSTEM

Memo: Costs are based on input from the Human/Intelligent systems group based on a similar system used for the 3100 cubic meter project. These costs were developed by identifying work scope tasks and required equipment. Included in the estimate back-up file are the developed spreadsheets identifying these task in full detail.

E07	BBWI-A	<i>U.C. per LS</i>		4980	\$73.95	368270.67	0	0	0	0	368270.67
	ELECTRONIC ENGINEERING		1.00 LS	4,980	E07	\$368,271	\$0	\$0	\$0	\$0	\$368,271

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
4.2.16.06 INTEGRATION CONTROLS SYSTEM												
Memo: Costs are based on input from the Human/Intelligent systems group based on a similar system used for the 3100 cubic meter project. These costs were developed by identifying work scope tasks and required equipment. Included in the estimate back-up file are the developed spreadsheets identifying these tasks in full detail.												
E11	MECHANICAL ENGINEERING	BBWI-A	1.00	LS	3600	\$81.44	293198.92	0	0	0	0	293198.92
		U.C. per LS			3,600	E11	\$293,199	\$0	\$0	\$0	\$0	\$293,199
E59	DESIGNER, MECHANICAL	BBWI-A	1.00	LS	3360	\$62.95	211517.89	0	0	0	0	211517.89
		U.C. per LS			3,360	E59	\$211,518	\$0	\$0	\$0	\$0	\$211,518
E07	ELECTRONIC ENGINEERING	BBWI-A	1.00	LS	1900	\$73.95	140504.87	0	0	0	0	140504.87
		U.C. per LS			1,900	E07	\$140,505	\$0	\$0	\$0	\$0	\$140,505
E17	QUALITY ENGINEERING	BBWI-A	1.00	LS	415	\$74.43	30887.77	0	0	0	0	30887.77
		U.C. per LS			415	E17	\$30,888	\$0	\$0	\$0	\$0	\$30,888
E19	SAFETY ENGINEERING	BBWI-A	1.00	LS	415	\$76.85	31894.31	0	0	0	0	31894.31
		U.C. per LS			415	E19	\$31,894	\$0	\$0	\$0	\$0	\$31,894
E28	PROJ MGMT - ENGINEERING/SCIENTIFIC	BBWI-A	1.00	LS	2076	\$96.71	200769.21	0	0	0	0	200769.21
		U.C. per LS			2,076	E28	\$200,769	\$0	\$0	\$0	\$0	\$200,769
E24	SYSTEMS ENGINEERING	BBWI-A	1.00	LS	585	\$85.52	50026.67	0	0	0	0	50026.67
		U.C. per LS			585	E24	\$50,027	\$0	\$0	\$0	\$0	\$50,027
204	MANAGER, SCI/ENG FUNCTION	BBWI-A	1.00	LS	415	\$124.64	51724.1	0	0	0	0	51724.1
		U.C. per LS			415	204	\$51,724	\$0	\$0	\$0	\$0	\$51,724

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOT-L</u>
4.2.16.06 INTEGRATION CONTROLS SYSTEM												
<i>Memo: Costs are based on input from the Human/Intelligent systems group based on a similar system used for the 3100 cubic meter project. These costs were developed by identifying work scope tasks and required equipment. Included in the estimate back-up file are the developed spreadsheets identifying these task in full detail.</i>												
	MATERIALS	U.C. per LS	1.00	LS	0		\$0	\$0	\$1,700,000	\$0	\$0	\$1,700,000
	Subtotal						\$1,378,794	\$0	\$1,700,000	\$0	\$0	\$3,078,794
	Sales Tax						\$0	\$0	\$102,000	\$0	\$0	\$102,000
	INEEL/Subcontractor Overheads	4.94%					\$157,183	\$0	\$0	\$0	\$0	\$157,183
	Subtotal Estimate											\$3,337,977
	Escalation						\$205,207	\$0	\$240,747	\$0	\$0	\$445,954
	Contingency						\$853,599	\$0	\$1,001,438	\$0	\$0	\$1,855,037
--Total 4.2.16.06 INTEGRATION CONTROLS SYSTEM					17,746		\$2,594,783	\$0	\$3,044,185	\$0	\$0	\$5,638,968

OPC3100 TESTING AND TURNOVER PLANNING

Memo: Percentage allowances derived by the project team on the CSIX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000.

	TESTING & TURNOVER PLANNING	U.C. per \$	96,817,741.00	\$	0		\$0	\$0	\$0	\$0	\$193,635	\$193,635
	Subtotal						\$0	\$0	\$0	\$0	\$193,635	\$193,635
	Sales Tax						\$0	\$0	\$0	\$0	\$0	\$0
	INEEL/Subcontractor Overheads	0.00%					\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate											\$193,635
	Escalation						\$0	\$0	\$0	\$0	\$31,137	\$31,137
	Contingency						\$0	\$0	\$0	\$0	\$160,273	\$160,273
--Total OPC3100 TESTING AND TURNOVER PLANNING					0		\$0	\$0	\$0	\$0	\$385,045	\$385,045

OPC3200 S. O. TESTING

Memo: Percentage allowances derived by the project team on the CSIX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000.

	S. O. TESTING	U.C. per \$	96,817,741.00	\$	0		\$0	\$0	\$0	\$0	\$2,904,532	\$2,904,532
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Estimating Services Department

Material Costs where applicable include Idaho State Sales Tax

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DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
OPC3200 S. O. TESTING												
<i>Memo: Percentage allowances derived by the project team on the CSIX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000.</i>												
	Subtotal							\$0	\$0	\$0	\$0	\$2,904,532
	Sales Tax							\$0	\$0	\$0	\$0	\$0
	INEEUSubcontractor Overheads	0.00%						\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate							\$0	\$0	\$0	\$0	\$2,904,532
	Escalation							\$0	\$0	\$0	\$467,049	\$467,049
	Contingency							\$0	\$0	\$0	\$2,404,096	\$2,404,096
---Total OPC3200 S. O. TESTING					0			\$0	\$0	\$0	\$0	\$5,775,677

OPC3300 ORR SUPPORT

Memo: Percentage allowances derived by the project team on the CSiX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000.

	ORR SUPPORT	U.C. per \$	96,817,741.00	\$	0			0	0	0	0	0.002	0.002
								\$0	\$0	\$0	\$0	\$212,999	\$212,999
	Subtotal							\$0	\$0	\$0	\$0	\$212,999	\$212,999
	Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
	INEEUSubcontractorOverheads	0.00%						\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate							\$0	\$0	\$0	\$0	\$212,999	\$212,999
	Escalation							\$0	\$0	\$0	\$0	\$34,250	\$34,250
	Contingency							\$0	\$0	\$0	\$0	\$176,300	\$176,300
---Total OPC3300 ORR SUPPORT					0			\$0	\$0	\$0	\$0	\$423,550	\$423,550

OPC3400 FACILITY ACCEPTANCE REVIEW

Memo: Percentage allowances derived by the project team on the CSiX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000.

	FACILITY ACCEPTANCE REVIEW	U.C. per \$	96,817,741.00	\$	0			0	0	0	0	0.001	0.001
								\$0	\$0	\$0	\$0	\$145,227	\$145,227

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
OPC3400 FACILITY ACCEPTANCE REVIEW												
<i>Memo: Percentage allowances derived by the project team on the CSIX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000.</i>												
	Subtotal							\$0	\$0	\$0	\$0	\$145,227
	Sales Tax							\$0	\$0	\$0	\$0	\$0
	INEEL/Subcontractor Overheads	0.00%						\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate											\$145,227
	Escalation							\$0	\$0	\$0	\$23,352	\$23,352
	Contingency							\$0	\$0	\$0	\$120,205	\$120,205
— Total OPC3400 FACILITY ACCEPTANCE REVIEW					0			\$0	\$0	\$0	\$288,784	\$288,784

OPC3500 RADIOLOGICAL CONTROL SUPPORT

Memo: Percentage allowances derived by the project team on the CSIX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000.

		<i>U.C. per \$</i>						<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0.001</i>	<i>0.001</i>
	RAD CONTROL SUPPORT	96,817,741.00	\$		0			\$0	\$0	\$0	\$0	\$106,500	\$106,500
	Subtotal							\$0	\$0	\$0	\$0	\$106,500	\$106,500
	Sales Tax							\$0	\$0	\$0	\$0	\$0	\$0
	INEEL/Subcontractor Overheads	0.00%						\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate											\$106,500	\$106,500
	Escalation							\$0	\$0	\$0	\$0	\$17,125	\$17,125
	contingency							\$0	\$0	\$0	\$0	\$88,150	\$88,150
— Total OPC3500 RADIOLOGICAL CONTROL SUPPORT					0			\$0	\$0	\$0	\$0	\$211,775	\$211,775

OPC3600 OPERATOR TRAINING

Memo: Percentage allowances derived by the project team on the CSIX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000.

		<i>U.C. per \$</i>						<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0.02</i>	<i>0.02</i>
	OPERATOR TRAINING	96,817,741.00	\$		0			\$0	\$0	\$0	\$0	\$1,936,355	\$1,936,355

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project - Retrieval System Project - Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
OPC3600 OPERATOR TRAINING												
<i>Memo: Percentage allowances derived by the project team on the CSiX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000.</i>												
	Subtotal							\$0	\$0	\$0	\$0	\$1,936,355
	Sales Tax							\$0	\$0	\$0	\$0	\$0
	INEEL/Subcontractor Overheads	0.00%						\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate							\$0	\$0	\$0	\$0	\$1,936,355
	Escalation							\$0	\$0	\$0	\$311,366	\$311,366
	Contingency							\$0	\$0	\$0	\$1,602,731	\$1,602,731
---Total OPC3600 OPERATOR TRAINING					0			\$0	\$0	\$0	\$0	\$3,850,451

OPC3700 OPERATING PROCEDURES

Memo: Percentage allowances derived by the project team on the CSiX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000.

		U.C. per \$				0	0	0	0	0.004	0.004
	OPERATING PROEDURES	96,817,741.00	\$	0		\$0	\$0	\$0	\$0	\$425,998	\$425,998
	Subtotal					\$0	\$0	\$0	\$0	\$425,998	\$425,998
	Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
	INEEL/Subcontractor Overheads	0.00%				\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate					\$0	\$0	\$0	\$0	\$0	\$425,998
	Escalation					\$0	\$0	\$0	\$0	\$68,500	\$68,500
	Contingency					\$0	\$0	\$0	\$0	\$352,601	\$352,601
--Total OPC3700 OPERATING PROCEDURES					0			\$0	\$0	\$0	\$847,099

OPC3800 START-UP COORDINATION

Memo: Percentage allowances derived by the project team on the CSiX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000.

		U.C. per \$				0	0	0	0	0.001	0.001
	STARTUP COORDINATION	96,817,741.00	\$	0		\$0	\$0	\$0	\$0	\$125,863	\$125,863

DETAIL ITEM REPORT

Project Name: **OU 7-10 Staged Interim Action**
Stage III Project- Retrieval System Project- Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D. Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>Description</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>Equipment</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
OPC3800 START-UP COORDINATION												
<i>Memo: Percentage allowances derived by the project team on the CSIX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000.</i>												
	Subtotal							\$0	\$0	\$0	\$0	\$125,863
	Sales Tax							\$0	\$0	\$0	\$0	\$0
	INEEUSubcontractorOverheads	0.00%						\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate							\$0	\$0	\$0	\$0	\$125,863
	Escalation							\$0	\$0	\$0	\$20,239	\$20,239
	Contingency							\$0	\$0	\$0	\$104,177	\$104,177
—Total OPC3800 START-UP COORDINATION						0		\$0	\$0	\$0	\$0	\$250,279

OPC3900 SPARES

Memo: In support of start-up and testing only. Percentage allowances derived by the project team on the CSIX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000.

	SPARES	U.C. per LS	9,595,247.00	LS	0	\$0	\$0	0.06	\$575,715	\$0	\$0	0.06	\$575,715
Memo: Calculated at 6% of procurement costs less RCS and fabric structures procurement costs.													
Subtotal						\$0	\$0	\$575,715	\$0	\$0	\$575,715		
Sales Tax						\$0	\$0	\$34,543	\$0	\$0	\$34,543		
INEEUSubcontractorOverheads						0.00%	\$0	\$0	\$0	\$0	\$0	\$0	
Subtotal Estimate												\$610,258	
Escalation						\$0	\$0	\$98,129	\$0	\$0	\$98,129		
Contingency						\$0	\$0	\$505,113	\$0	\$0	\$505,113		
—Total OPC3900 SPARES						0	\$0	\$0	\$1,213,501	\$0	\$0	\$1,213,501	

7.0 PROJECT MANAGEMENT

Memo: Percentage of construction and procurement costs based on detailed input from the project team for the LCB effort, OU 7-10 PIT-9 STAGE III- LCB, estimate# 5974-1. Also considered were percentage allowances derived by the project team on the CSIX/TRU Grout Feasibility Study, produced by Washington Group International, December, 2000. Where large discrepancies occurred, an average of the two percentages was applied here.

	PROJECT MANAGEMENT SUPPORT	U.C. per\$	96,817,741.00	\$	0			0	0	0	0	0.09	0.09
								\$0	\$0	\$0	\$0	\$8,713,597	\$8,713,597

DETAIL ITEM REPORT

Project Name: **OU 7-70 Staged Interim Action**
Stage III Project- Retrieval System Project- Option 2
 Project Location: **INEEL-RWMC**
 Estimate Number: **5974-2 Option 2-R**

Client: **S. L. Austad**
 Prepared By: **S.N. Wasley/R.D.Adams**
 Estimate Type: **Project Support**

<u>Code</u>	<u>DescrIption</u>	<u>Contractor</u>	<u>Qty</u>	<u>UOM</u>	<u>Hrs</u>	<u>Resource</u>	<u>Labor</u>	<u>EuaiPMENT</u>	<u>Material</u>	<u>Subcontractor</u>	<u>Other</u>	<u>TOTAL</u>
7.0 PROJECT MANAGEMENT												
Memo: Percentage of construction and procurement costs based on detailed input from the project team for the LCB effort, OU 7-10 PIT-9 STAGE III - LCB, estimate # 5974-1. Also considered were percentage allowances derived by the project team on the CSIX/TRUE Grout Feasibility Study, produced by Washington Group International, December, 2000. Where large discrepancies occurred, an average of the two percentages was applied here.												
Subtotal								\$0	\$0	\$0	\$0	\$8,713,597
Sales Tax								\$0	\$0	\$0	\$0	\$0
INEEUSubcontractorOverheads		0.00%						\$0	\$0	\$0	\$0	\$0
Subtotal Estimate												\$8,713,597
Escalation								\$0	\$0	\$0	\$932,355	\$932,355
Contingency								\$0	\$0	\$0	\$4,129,686	\$4,129,686
—Total 7.0 PROJECT MANAGEMENT					0			\$0	\$0	\$0	\$13,775,637	\$13,775,637

Subtotal	OU 7-10 STAGE III - RETRIEVAL SYSTEM PROJECT - OPTION #		\$13,108,384	\$3,143,269	\$42,975,467	\$36,719,872	\$50,935,125	\$**,***,***
Sales Tax 2			\$0	\$0	\$2,578,528	\$0	\$0	\$2,578,528
INEEUSubcontractor Overheads			\$4,429,368	\$1,020,812	\$2,744,774	\$1,070,169	\$0	\$9,265,123
Subtotal Estimate			\$2,343,044	\$556,321	\$4,696,427	\$4,167,902	\$5,194,599	\$**,***,***
Escalation			\$9,746,624	\$2,314,214	\$28,459,382	\$22,318,031	\$29,945,101	\$16,958,293
Contingency								\$92,783,352
Total	OU 7-10 STAGE III - RETRIEVAL SYSTEM PROJECT - OPTION # 2	326,679	\$29,627,420	\$7,034,615	\$81,454,578	\$64,275,974	\$86,074,826	\$268,467,413